SEAN P. O. MACCATH–MORAN

Greetings,

By way of introducing my professional qualifications, I'm a [Zend Certified PHP Engineer](#) with over three decades of development experience in a variety of languages, databases and technologies. My employers have ranged from researchers in climate sciences to web start-ups to enterprise web application vendors servicing Fortune 100 companies.

My resume is attached and is viewable at my website, [emanaton.com](#), and I'm [emanaton on d.o](#) where a few projects, many patches, and a history of helping others can be found. You can contact me by phone (listed below) between the hours of 8:00am and 9:00pm EST almost any day, or via email any time; I welcome the opportunity to discuss with you how we can achieve our goals together. I'm able to work in the US, Canada, the UK, the EU, and elsewhere without hindrance, and have a great deal of experience with cross-border telecommuting positions. Thank you for your time and your consideration of my application.

Cordially Yours,

Sean P. O. MacCath-Moran
 [www.emanaton.com](#)
 [sean.maccath-moran@triskelemedia.com](#)
 (877) 622 - 2284, ext 710 (voice/fax/messages)

SEAN P. O. MACCATH–MORAN

QUALIFICATIONS
Ranked As: Beginner, Intermediate, Advanced, Expert » *Date:* Last regular use of skill OR 'Current'

Programming Language

PHP *(Zend Certified)* » Expert » Current
Bash » Expert » Current
OO JavaScript » Expert » Current

C# » Intermediate » Aug 2019
node.js » Intermediate » Aug 2019
Unity *(C#)* » Beginner » Mar 2013
Java » Intermediate » Aug 2010
Ruby / Ruby on Rails » Intermediate » Dec 2009
Perl » Advanced » Aug 2007
ASP » Advanced » Aug 2007
C++ , C# *(.net)* » Intermediate » May 2006

Drupal (11, 10, 9, 8, 7, 6, and a bit of 5)

Custom Modules » Expert » Current
Theming/Front-End » Expert » Current
Site Building » Expert » Current
Performance Optimization » Expert » Current
Multilingual Implementation » Expert » Current
Migration *(from D6/7/8, Wordpress, APIs, etc.)* » Advanced » Current
Drupal DevOps » Advanced » Current
Architecture & Planning » Advanced » Current

Apache SOLR » Expert » Dec 2018

Other Framework / CMS

Laravel » Advanced » Aug 2019
WordPress » Intermediate » Mar 2013
Joomla » Intermediate » Jun 2011
Zend Framework » Advanced » Aug 2010
Savant3 » Expert » Aug 2007

Paradigm

Adaptive Design » Advanced » Current
AJAX *(w/ JSON, DHTML, etc.)* » Expert » Current
E-Commerce » Expert » Current
MVC *(Model View Controller)* » Expert » Current
SEO » Advanced » Current
OOD *(Object Oriented Design)* » Advanced » Current

Markup

CSS *(w/ LESS, SASS, etc.)* » Expert » Current
HTML / XHTML » Expert » Current
DOM / XPath » Expert » Current
YAML » Expert » Current
DocBlock » Advanced » Current
XML » Advanced » Current

MediaWiki » Expert » Mar 2013

SLDC Tools

Github *(Admin & User)* » Advanced » Current
BitBucket *(Admin & User)* » Advanced » Current
Jira/Confluence *(User)* » Advanced » Current
Jenkins *(User)* » Intermediate » Current

Buildkite *(User)* » Beginner » Oct 2022
Zoho *(User)* » Intermediate » Mar 2018
Redmine *(Admin & User)* » Advanced » Mar 2013

Office / Interpersonal

Technical and Business Writing » Expert » Current
Telecommuting *(tech., scheduling, etc.)* » Expert » Current
Team Management » Advanced » Current
Scrum / Agile » Advanced » Current
Customer Management » Advanced » Current
Tutoring / Mentoring *(one-on-one and group)* » Advanced » Current

Environment

LAMP » Expert » Current
Apache » Expert » Current
AWS » Intermediate » Current
DNS / Domain Maintenance » Advanced » Current
Lando » Intermediate » Current

Docker/ddev » Intermediate » Oct 2022
Gimp » Intermediate » Oct 2022
Vagrant » Intermediate » Nov 2018
Nutch » Intermediate » Nov 2015
Photoshop » Intermediate » Oct 2015
CruiseControl » Advanced » Oct 2009
IIS » Intermediate » Oct 2007

IDE

PhpStorm » Expert » Current
VIM » Expert » Current
any old text editor *(e.g. Kate, Notes, etc.)* » Expert » Current

Visual Studio Code » Intermediate » Aug 2019
Eclipse / PDT » Advanced » Dec 2009
IntelliJ IDEA » Advanced » Dec 2009
Zend Development Environment » Advanced » Jan 2007
Dreamweaver » Expert » Jan 2007
Visual Studio » Advanced » Jul 2006

Source Control

GIT *(Admin & User)* » Expert » Current

SVN *(Admin & User)* » Expert » Nov 2015
CVS *(User)* » Advanced » Mar 2010
Perforce *(Admin & User)* » Advanced » Mar 2003
Source Safe *(User)* » Advanced » Oct 2003

Database

MySQL » Expert » Current

Solr » Advanced » Dec 2018
MS SQL » Advanced » Dec 2018
Mongo » Beginner » Mar 2013
SQLite » Advanced » Dec 2009
Oracle *(ver. 9 to 11)* » Intermediate » Dec 2009

Client-Side Libraries

jQuery » Expert » Current
React » Beginner » Current

Ext JS » Advanced » Mar 2013
Sencha Touch » Intermediate » Mar 2013
Dojo » Beginner » Dec 2009
Script.aculo.us » Expert » Aug 2007
Prototype.js » Expert » Aug 2007

Operating System

macOS » Advanced » Current
Linux *(MacOS, WSL, Debian, RPM, KDE, etc.)* » Advanced » Current
Android & iOS *(for site testing)* » Intermediate » Current

OS 9 / OS 10 / OS X » Intermediate » Dec 2009
Windows *(10, 8, 7, Vista, XP, NT, 2000, 98, 95, 3.11, 3.0)* » Advanced » Jul 2000
Unix & Novell » Intermediate » May 1999

Legacy (inactive skills)

Twiki » Expert » Mar 2010
Visual Basic *(6.0 to .net)* » Advanced » May 2007
ColdFusion » Intermediate » Mar 2001
COBOL *(PL/B)* » Advanced » Jul 2000
MS Access *(VBA)* » Advanced » Jul 2006
Dbase » Intermediate » Jul 1996

S EAN P. O. M AC C ATH – M ORAN

O BJECTIVE

To build long-term relationships with compelling people and businesses as a web applications engineer, particularly within LAMP environments.

E DUCATION

Zend Certified Engineer
  Zend Technologies, Inc. » 2006

Bachelor of Science in Computer Science
  University of Maine » 2006

Associate of Science in Computer Information Systems
  John Wood Community College » 1998

Certificate in Computer Information Systems
  John Wood Community College » 1998

W ORK S AMPLES

Professional Project Portfolio

- **HRSA Website Suite**: Development Team Lead for the comprehensive HRSA federal website ecosystem including:

hrsa.gov	newbornscreening.hrsa.gov
bhw.hrsa.gov	nhsc.hrsa.gov
bphc.hrsa.gov	organdonor.gov
bloodstemcell.hrsa.gov	poisonhelp.hrsa.gov
mchb.hrsa.gov	ryanwhite.hrsa.gov

- **Drupal GovCon 2023: Extending Views with Custom Settings**: Presented technical solution using DisplayExtenderPluginBase to solve complex Drupal Views integration challenges for government websites by doing live coding in front of an audience

- **Folklore & Fiction**: Sole architect, developer, and designer for this comprehensive author platform. Engineered all technical aspects from inception, successfully migrating and enhancing the site through five major Drupal versions (5→6→7→8→10) while maintaining platform stability and incorporating evolving web standards. Implemented custom theming and functionality to showcase academic credentials, literary works, and multimedia content for this multifaceted digital presence.

- **Your Vegan Fallacy Is**: Lead developer, internationalization coordinator, and theme architect

- **NCAA**: Core team member for complex Drupal 6 to 7 migration with custom data transformations

- **Red Hat**: Core implementation team member for enterprise Drupal architecture

Open Source Contributions on Drupal.org

- **Email Control**: Custom module that provides granular control over email delivery in Drupal

- **View Column Control**: Enhances Drupal Views with advanced column configuration options

- **Views SOL Filter**: Custom filter implementation for advanced view filtering capabilities

SEAN P. O. MacCATH-MORAN

EXPERIENCE

My career as a professional application engineer began as a developer creating databases for the US Navy and continues more than twenty years to my current position as a Zend PHP Certified Engineer working in Drupal. What follows is a brief explanation of my accomplishments in each of the roles I've filled over that time.

Senior Web Application Engineer
IQS » Bethesda, MD, USA » October 2022 ~ Current

Led remote development team at IQS, advancing several developers through mentorship while creating innovative Drupal solutions: a content-driven Block visibility system, custom Views plugins for GUI configuration, and shared modules for HRSA sites. Delivered high-visibility government projects under Public Trust clearance despite changing requirements and technical constraints.

> LAMP (LINUX APACHE MYSQL PHP), DRUPAL (8, 9, 10, & 11), LANDO, OO JAVASCRIPT, REACT, MYSQL, AMAZON WEB SERVICES (AWS), JENKINS, BASH SCRIPTING, GHOST INSPECTOR, TELECOMMUTING, MENTORING, PROJECT MANAGEMENT, CSS, GIT, TECHNICAL AND BUSINESS WRITING

Senior Web Application Engineer
Forum One » Alexandria, VA, USA » October 2018 ~ October 2022

Delivered diverse technical solutions including a streamlined Hero Blocks system, enterprise data APIs, AWS Lambda functions, and secure file transfer protocols. Advanced to the HRSA contract where I created dynamic organization charts, interactive US map visualizations, and intuitive health statistics interfaces. Worked under Public Trust clearance solving complex challenges for government clients.

> LAMP (LINUX APACHE MYSQL PHP), DRUPAL (7, 8, & 9), DOCKER/DDEV, APACHE SOLR, OO JAVASCRIPT, MYSQL, LARAVEL, VISUAL STUDIO CODE, NODE.JS, AMAZON WEB SERVICES (AWS), VAGRANT, JENKINS, BUILDKITE, TELECOMMUTING, MENTORING, CSS, GIT, TECHNICAL AND BUSINESS WRITING

Senior Web Application Engineer
Qase » Vancouver, British Columbia, Canada » May 2018 ~ October 2018

Worked with an agile team to build the QASE platform, developing critical third-party integrations, implementing core team designs into production features, and mentoring developers to improve code quality. Required full-stack expertise, integration architecture knowledge, and technical leadership in a fast-paced environment.

> **LAMP (LINUX APACHE MYSQL PHP), DRUPAL (7 & 8), APACHE SOLR, OO JAVASCRIPT, LARAVEL, MYSQL, MSSQL, TELECOMMUTING, MENTORING, CSS, GIT, TECHNICAL AND BUSINESS WRITING**

Senior Web Application Engineer
New Target » Alexandria, VA, USA » December 2015 ~ March 2018

Progressed to architect mission-critical systems, creating "Data Exchange" for an AFL-CIO affiliate to transform multi-source data, implementing a responsive SOLR data store for a Drupal-based CRM, developing a custom CRM for a labor organization, and providing technical expertise during team transitions. Demonstrated rapid growth from developer to designer of enterprise-grade data systems for prominent clients.

> LAMP (LINUX APACHE MYSQL PHP), DRUPAL (7 & 8), APACHE SOLR, OO JAVASCRIPT, LARAVEL, MYSQL, MSSQL, TELECOMMUTING, MENTORING, CSS, GIT, TECHNICAL AND BUSINESS WRITING

Senior Web Application Engineer
Phase2 » Alexandria, VA, USA » March 2013 ~ October 2015

Managed high-profile Drupal projects: led NCAA's Drupal 6 to 7 migration, enhanced The Nation's publishing services, architected Georgia Tech's multi-site platform, developed interactive components for Red Hat, and contributed to drupal.org projects. Created innovative "Nutch for Drupal" module to overcome hosting limitations by crawling external sites, creating optimized nodes, and rewriting URLs during SOLR indexing.

> LAMP (LINUX APACHE MYSQL PHP), DRUPAL (6, 7, & 8), APACHE SOLR, NUTCH, OO JAVASCRIPT, MYSQL, VAGRANT, JENKINS, TELECOMMUTING, MENTORING, CSS, GIT, TECHNICAL AND BUSINESS WRITING

Senior Web Application Engineer
theREDspace » Bedford, Nova Scotia, Canada » Aug 2010 ~ March 2013

Developed sophisticated LAMP applications for Sony, MTV, and College Humor. Created advanced Drupal modules for high-traffic sites, engineered Apache SOLR integrations, implemented Sencha Touch for mobile experiences, led technical teams through development cycles, and created comprehensive documentation. Adapted seamlessly between remote and on-site roles in Nova Scotia while consistently delivering high-quality enterprise solutions.

LAMP (LINUX APACHE MYSQL PHP), DRUPAL, APACHE SOLR + NUTCH, OO JAVASCRIPT, MYSQL, TELECOMMUTING, PROJECT MANAGEMENT, MENTORING, CSS, GIT, SVN, JENKINS, SENCHA TOUCH, TECHNICAL AND BUSINESS WRITING

Contract Web Application Developer
Consumer Search » New York, New York, USA » Oct 2011 ~ April 2013

Quickly advanced from support to delivering critical technical solutions: engineered a custom SOLR interface with Node.js to improve product data search relevancy, executed complex Drupal 6-7 migrations with minimal disruption, created intuitive admin interfaces for streamlined content management, and developed user interfaces optimized for conversion and experience. Demonstrated versatility with Node.js, SOLR, and Drupal while rapidly delivering solutions for both internal and customer-facing needs.

LAMP (LINUX APACHE MYSQL PHP), DRUPAL, APACHE SOLR, NODE.JS, OO JAVASCRIPT, MYSQL, TELECOMMUTING, MENTORING, GIT, TECHNICAL AND BUSINESS WRITING

Web Application Engineer (Drupal)
Bonnier Corporation » Winter Park, Florida, USA » Mar 2010 ~ Aug 2010

Demonstrated versatility and leadership across publication portfolios: served as sole Drupal engineer for Travel Group (Caribbean Travel Magazine, Destination Wedding Magazine, Spa Magazine), trained an in-house developer to maintain these sites, then led Drupal development for high-traffic Marine Group (Boating Magazine, Flying Magazine, Sailing World). Engineered a reusable search module replacing a Java solution, reducing implementation time. Employed "reuse-focused" development for sustainable solutions that provided lasting organizational value.

LAMP (LINUX APACHE MYSQL PHP), DRUPAL, APACHE SOLR, OO JAVASCRIPT, MYSQL, TELECOMMUTING, MENTORING, CSS, SVN, MANTIS, TECHNICAL AND BUSINESS WRITING

Web Application Engineer (Drupal)
Team Detroit » Dearborn, Michigan, USA » Jan 2010 ~ Mar 2010

Led technical direction and implementation for a high-profile Drupal project: directed a three-person team delivering the complex Warrior.com website under aggressive deadlines, architected a sophisticated user interaction model balancing performance with brand experience, delivered phase one on schedule while designing phase two roadmap, and created comprehensive documentation for seamless transition to the in-house team. Demonstrated ability to lead rapid development cycles while maintaining code quality and ensuring smooth project handoff.

LAMP (LINUX APACHE MYSQL PHP), DRUPAL, MYSQL, CVS, OO JAVASCRIPT, CSS, TECHNICAL AND BUSINESS WRITING, TEAM MANAGEMENT, MENTORING

Core Web Application Engineer & Internal Tools Developer
WorkForce Software » Livonia, Michigan, USA » Jul 2007 ~ Dec 2009

Drove modernization initiatives across departments: helped transform the flagship product from "web 1.0" to responsive "web 2.0" using Zend Framework and object-oriented JavaScript; embedded with Implementation Consultants to identify workflow inefficiencies; initiated and joined an Internal Tools Team to revolutionize the company's software development approach; designed "Wiz" (Workforce Injected Zend Framework) as a standardized application foundation; implemented enterprise features including LDAP authentication and role-based access control. This standardized framework eliminated redundant efforts, improved code maintainability, and allowed developers to focus on core business functionality.

LAMP (LINUX APACHE MYSQL PHP), OO JAVASCRIPT, ORACLE, JAVA, CSS, TESTTRACK, P4V (PERFORCE), CODE COLLABORATOR, ECLIPSE, INTELLIJ IDEA, ZEND FRAMEWORK (AND ZYM), TECHNICAL AND BUSINESS WRITING, TEAM MANAGEMENT, MENTORING

Web Application Developer

Michigan Network Services » Lake Orion, Michigan, USA » Jun 2008 ~ Jun 2009

Delivered an enterprise-grade workflow management solution: analyzed telecommunication workflows and the existing "Toolkit 2" codebase to identify optimization opportunities; designed and implemented "Toolkit 3" using Zend Framework as a robust order management system with end-to-end tracking; architected a flexible plugin framework enabling seamless integration of proprietary process modules; implemented sophisticated error handling with actionable troubleshooting data; and created a complete customer lifecycle tracking system from initial contact through verification. The solution streamlined operations while providing flexibility for Michigan Network Services to incorporate specialized telecommunications processes into a standardized framework.

LAMP (LINUX APACHE MYSQL PHP), ZEND FRAMEWORK (AND ZYM), OO JAVASCRIPT, ECLIPSE, TELECOMMUTING, MEDIAWIKI, TECHNICAL AND BUSINESS WRITING

Web Application Engineer

InterServ » Soutuhfield, Michigan, USA » Feb 2007 ~ Jul 2007

Rescued a critical insurance application through complete redesign: audited the failed "Coverage For One" project, identifying issues including lack of object-oriented design, security vulnerabilities, and bugs; rebuilt the application using proper OOP principles and MVC architecture in Perl and PHP; re-engineered the system to meet original specifications while implementing robust security; delivered ahead of schedule with time to implement additional features; created a sophisticated decision-tree system for Michigan Blue Cross/Blue Shield insurance rules; and developed intelligent branching logic for personalized product recommendations. The rebuilt application salvaged a critical project, providing a secure, maintainable solution that streamlined insurance selection while implementing complex business logic.

PERL, LAMP (LINUX APACHE MYSQL PHP), CSS, MSSQL, SVN, SEO, OO JAVASCRIPT, TECHNICAL AND BUSINESS WRITING

Web Application Engineer

RainStorm Consulting » Orono, Maine, USA » Dec 2005 ~ Jan 2007

Contributed to the successful development and launch of a modular web platform: joined the team working on Site Turbine, a suite of modular components for customer websites; stepped into critical development path to meet an imminent deadline; designed and implemented the e-commerce shopping cart module with a flexible payment gateway system supporting multiple processors; engineered a configurable payment integration framework for customers to select preferred solutions; delivered multiple smaller projects in parallel; and contributed to the on-time release of Site Turbine, which was implemented across numerous client websites. The platform became a market success, with the e-commerce module serving as a key component delivering essential revenue-generating functionality for diverse clients.

LAMP (LINUX APACHE MYSQL PHP), CSS, OO JAVASCRIPT, SCRIPT.ACULO.US / PROTOTYPE, SVN, CVS, ZEND DEVELOPMENT ENVIRONMENT, SAVANT3

Web Application Developer

Climate Change Institute (University of Maine) » Orono, Maine, USA » May 2004 ~ Jul 2006

Concurrent with completing a Bachelor of Science in Computer Science, developed specialized research applications: designed a bibliography parsing and cataloging system for managing research citations; created a public-facing interactive guide to Maine's Ice Age Trail with an intuitive digital interface; developed a sophisticated database front-end for the "Old Weather" historical climate dataset enabling complex queries of weather observations from the 1600s-1800s; built custom query tools for climate scientists to analyze historical weather data trends; and successfully balanced professional development work with academic responsibilities while delivering applications supporting research and public outreach missions. These projects demonstrated the ability to translate specialized scientific requirements into functional applications serving both research needs and public education objectives.

LAMP (LINUX APACHE MYSQL PHP), OO JAVASCRIPT, CSS, DREAMWEAVER, TELECOMMUTING

Core VB/MS-SQL Application Developer

Advanced Data Systems » Bangor, Maine, USA » May 2001 ~ Oct 2003

Developed the Data Interface Module for ProFund SeQuel, ADS' core "fund-based accounting" application; created functionality allowing data to be mapped into or out of databases in controlled and auditable processes; implementation led to unexpected sales success, converting customers from competitors' products.

ASP, VISUAL BASIC (6.0 TO .NET), VBA, MSSQL, ACCESS, SOURCE SAFE, CRYSTAL REPORTS, IIS, TECHNICAL AND BUSINESS WRITING

Programmer Analyst

Osmose Inc. » Buffalo, New York, USA » Jul 2000 ~ Mar 2001

Designed and developed various in-house data storage and querying tools for the sales and development teams.

VISUAL BASIC, ACCESS, VBA, MSSQL, MYSQL, TECHNICAL AND BUSINESS WRITING

Programmer Analyst

Cathedral Corporation » Buffalo, New York, USA » May 1999 ~ Jul 2000

Migrated existing PL/B (a COBOL-like language) data management system to Visual Basic and Access.

PL/B COBOL, PL/B DB (INDEXED FILES), IBM AIX, COLDFUSION, VISUAL BASIC, ACCESS

Interim IT Manager and Network Administrator

Avery Dennison » Buffalo, New York, USA » Sep 1998 ~ May 1999

Executed critical network administration responsibilities when a paper products distributor unexpectedly lost its IT leadership, maintaining operational continuity of essential server infrastructure and interdependent business systems throughout the transition period; rapidly adapted to unfamiliar operating environments to ensure uninterrupted business operations; performed necessary system maintenance, troubleshooting, and updates to maintain network integrity; successfully bridged technical knowledge gaps to sustain all mission-critical systems until permanent IT personnel were secured.

UNIX, LINUX, PICK (AIX), ACCESS, VISUAL BASIC

Computer Technician

Illinois Veterans Home » Quincy, Illinois, USA » Feb 1998 ~ Aug 1998

Developed and implemented a comprehensive incident tracking database system for the Security Office at the Illinois Veterans' Home while pursuing an Associate of Science in Computer Science degree; created a solution that improved security monitoring capabilities and operational efficiency for staff serving military veterans; provided technical support including software installation, network configuration, phone line setup, and hardware maintenance; gained valuable hands-on experience with enterprise systems including NT and WANG servers under IT Manager supervision.

ACCESS, VISUAL BASIC

Computer Technician

John Wood Community College » Quincy, Illinois, USA » Aug 1996 ~ Aug 1998

Led a comprehensive campus network infrastructure overhaul while completing an Associate of Science in Computer Science degree, working within the Computer Services department; executed complete rewiring of the main campus, replacing outdated coaxial cable with modern Cat-5 cabling to improve connectivity; installed fiber optic connections between multiple data centers to create a high-performance backbone network; significantly enhanced network throughput and reliability for the entire academic community, directly improving educational technology capabilities for both students and faculty.

UNIX, ROUTERS, HUBS, SWITCHES, CAT 5, COAXIAL, FIBER OPTICS

Sean P. O. MacCath — Moran

Boatswain's Mate 3rd Class

United States Navy » USS L. Y. Spear (AS 36), Norfolk, Virginia, USA » Jul 1992 ~ Jul 1996

Recognized for technical aptitude and selected to modernize administrative operations for the Deck Department, transitioning from manual record-keeping to digitized systems; designed and implemented a comprehensive MS Access personnel information and qualifications database, replacing outdated paper-based processes; automated critical administrative workflows including personnel records management and watch bill scheduling; significantly improved departmental efficiency and data accuracy through technical innovation, demonstrating early leadership in process improvement.

ACCESS, VBA, WORD PERFECT

AWARDS

John Wood Community College

Trustee Merit Full Tuition Scholarship

Who's Who Among Students in American Junior Colleges

Dean's List

Student Support Services Recognition Award

United States Navy

Awarded the **Navy Achievement Medal** (NAM) for my decisive action preventing serious damage to numerous submarines.

SECURITY CLEARANCES

United States Navy

Jul 1992 ~ Jul 1996

Held "Confidential" clearance while serving in the US Navy.

Forum One – HRSA Contract

Oct 2019 ~ Oct 2022

Held "Public Trust" clearance along with an associated PIV card for accessing secured government sites and services.

IQS – HRSA Contract

Oct 2022 ~ Present

Held "Public Trust" clearance along with an associated PIV card for accessing secured government sites and services.

CONTACT

Thank you for giving me the opportunity to present my skills to you. I'm authorized to work in the U.S. and in Canada without hindrance. Please contact me soon to discuss the ways I can immediately fulfill your needs. I am most available between the hours of 8:00am to 9:00pm EST.

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