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Phil O'Sullivan

Lead & Senior Full-Stack Software Engineer | Enterprise CMS & API Architect

High-impact Senior & Lead Full-Stack Software Engineer with over 25 years of experience architecting, modernizing, and scaling high-traffic enterprise web applications, cross-platform desktop applications (Electron/Node.js), relational database systems (MySQL/PostgreSQL), and API microservices. Early adopter of AI-Assisted Software Engineering & Agentic Coding utilizing Google Gemini and OpenAI Codex for prompt-driven development, rapid prototyping, and automated code synthesis. Recognized for pioneering engineering across high-volume digital media platforms including desktop tools, mobile news syndication engines, site-wide Gutenberg / React editor migrations, Single Sign-On (SSO) ecosystems, and edge delivery optimization (CDN VCL) across 350+ completed technical projects.

CORE TECHNICAL COMPETENCIES

AI-Augmented Engineering & LLMs

Agentic Coding AI-Assisted Development
Google Gemini OpenAI Codex
Prompt Engineering LLM Pair Programming

Languages, Backend & Desktop

PHP 8.x JavaScript (ES6+) TypeScript
Electron.js (Desktop) Node.js
RESTful APIs GraphQL Microservices

Database Architecture & Engineering

MySQL PostgreSQL MS SQL Server
DB2 / Oracle Redis Query Optimization
Schema Design Data Migrations

CMS & Frontend Engineering

WordPress Core Custom Plugins
Gutenberg Block API React.js
HTML5 / CSS3 / SASS
Bootstrap / Foundation Handlebars / Twig

APIs & Integration Engineering

Mobile News Syndication APIs
Community & SSO Systems
Edge CDN / VCL Automated SMS APIs
Geolocation APIs Prebid.js / AdTech

PROFESSIONAL EXPERIENCE

Senior Full-Stack Web Developer / Software Engineer

Boston Globe Media Partners — Boston.com || BostonGlobe.com

1 Exchange Place, Suite 201
Boston, MA 02109

Phone: (617) 929-2000 | Boston.com || BostonGlobe.com

2017 – Present

- **AI-Augmented Development & Workflow Optimization:** Pioneer in integrating Generative AI tools (Google Gemini, OpenAI Codex) and agentic coding workflows for prompt-engineered software development, automated code synthesis, rapid prototyping, and complex legacy refactoring.
- **Cross-Platform Desktop & Tooling Applications:** Architected and built internal desktop utilities and publishing workflow tools utilizing Electron, Node.js, and modern web technologies to streamline editorial productivity and content operations.
- **Database Engineering & Listing Feed Rewrites:** Re-architected legacy MySQL/SQL database listing feeds, designed optimized schemas, and built automated data pipeline jobs handling high-volume real-time content synchronization with zero downtime.
- **Mobile News Syndication Engine:** Engineered scalable publishing integration for premium mobile news applications, building custom block converters, image metadata enrichment pipelines, video/ad slot logic, and automated feed generators serving high-volume syndicated content.
- **Modern CMS & Gutenberg Editor Architecture:** Key full-stack architect for major media website redesign. Designed and deployed custom Gutenberg editor blocks (React/JS) and custom PHP 8 plugin suites, reducing page load times by 35% and modernizing editorial content creation.
- **Identity, Community & Single Sign-On (SSO):** Spearheaded integration of enterprise community platform and Single Sign-On (SSO), establishing unified user registration, profiles, email verification, and real-time comment counting across high-volume digital properties.
- **DevOps, Security & Platform Upgrades:** Managed core runtime upgrades from PHP 7 to PHP 8.x, Linux server migrations, Edge CDN caching logic, and automated CI/CD pipelines (Jenkins/GitHub), ensuring 99.99% uptime and full VPPA & GDPR privacy compliance.

DevOps, Cloud & SRE

Git / GitHub

GitHub Actions

Jenkins CI/CD

AlmaLinux / CentOS

Docker

Core Web Vitals

Methodologies & Compliance

Agile / Scrum (350+ Projects)

GDPR & VPPA Security

Single Sign-On (OAuth2)

Technical Architecture

Cross-functional Leadership

EDUCATION & CREDENTIALS

Computer Information Systems

Massasoit Community College

Programming Option | Canton, MA

Electro-Optical Systems Repair

U.S. Army Ordnance Center & School

Military Certification | Aberdeen, MD

Full Stack Web Developer (LAMP / Perl)

Safety Insurance

20 Custom House Street

Boston, MA 02109

Phone: (800) 952-5100 | safetyinsurance.com

2012 – 2017

- **Database Architecture & Web Applications:** Architected, maintained, and optimized relational database schemas (MySQL, DB2, Oracle, AS400) and over 30 business-critical web applications supporting policyholders, independent agents, and underwriting teams.
- **API & System Integration:** Built secure REST and SOAP APIs connecting web frontends with legacy backend enterprise databases (AS400, DB2, Oracle).
- **CMS & Workflow Modernization:** Delivered continuous CMS enhancements and automated notification pipelines, reducing manual support overhead.

Staff Software Developer (Java / JSP)

Boston Financial Data Services / DST Systems

2000 Crown Center Exec. Center

Kansas City, MO 64108

Phone: (816) 435-1000 | bostonfinancial.com

2010 – 2012

- **Financial Web Applications & Database Queries:** Engineered high-performance, AJAX-driven web applications and SQL database procedures powered by enterprise financial APIs for Fortune 500 clients.
- **Full SDLC Ownership:** Managed end-to-end SDLC processes from business requirements gathering to production release and long-term application support.

Professional Services Engineer / Software Developer

International Electronics Inc.

427 Turnpike Street

Canton, MA 02021

Phone: (781) 821-2201

1999 – 2009

- **Professional Services Engineer (2005 – 2009):** Engineered large-scale XML-RPC APIs, custom reporting tools, desktop utilities, and database integrations for embedded Linux hardware systems. Implemented online project tracking, defect reporting, and database-backed knowledge base infrastructure.
- **Engineering Technician / Software Developer I (2001 – 2005):** Developed firmware, database-backed desktop tools, and software for electronic access control systems; **reduced software defect reports by 40%** through automated tracking and testing workflows.
- **Technical Support Representative (1999 – 2001):** Diagnosed complex hardware/software access control issues; authored interactive customer training modules.

Electro-Optical Ordnance Repairer (MOS 2171)

United States Marine Corps (Active & Reserve)

Aberdeen Proving Ground, MD

MOS 2171 — Ground Electro-Optical Ordnance Systems Repair Specialist

1997 – 2001

- **Mission-Critical Systems Maintenance:** Inspected, tested, diagnosed, and repaired complex ground electro-optical ordnance systems, thermal imaging equipment, night vision devices, and missile guidance & control electronics under high-precision military standards.
- **Operational Quality Control:** Maintained technical documentation, equipment readiness logs, and precision optical calibration under strict military leadership and tactical field operations.