

DALTON ORVIS

Software Engineer | Accelerating Development with AI | Full Stack

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PROFESSIONAL SUMMARY

Full stack software engineer with deep PHP/Laravel and TypeScript/React expertise, delivering production features 90% faster by leveraging modern AI tools and techniques. Built enterprise social platforms with Laravel 8 and real-time React applications while leading AI adoption initiatives at Verisk Analytics. Currently spearheading department-wide AI tool evaluation, creating frameworks for LLM integration that became the company standard. Expert in architecting RESTful APIs, microservices, and scalable SaaS applications. Known for rapid delivery and technical leadership, using AI to accelerate traditional development workflows while maintaining code quality and best practices.

TECHNICAL SKILLS

AI & LLM Technologies: ChatGPT, Claude, Gemini, Amazon Bedrock, GitHub Copilot, Cursor IDE, Windsurf IDE, Prompt Engineering, MCP Servers, Agentic Systems

Languages: PHP, TypeScript/JavaScript, Python, C#, HTML5, CSS3, SQL

Frameworks & Libraries: Laravel, React, Vue.js, Next.js, FastAPI, Django, Flask, Playwright, GraphQL

Backend & APIs: RESTful APIs, Microservices Architecture, MySQL, PostgreSQL, Redis, DynamoDB

Systems Design: Database Schema Design, Microservices Architecture, RESTful/GraphQL APIs, Distributed Systems, Scalability Optimization

Tools & Platforms: Git/GitHub, Azure DevOps, AWS, Docker, CI/CD, Test Automation, Agile

TECHNICAL EXPERIENCE BY STACK

Backend Development (5+ Years)

- **PHP/Laravel:** 3+ years building production SaaS platforms (freelance clients, Nine Design social platform, Maiden Voyage CRM)
- **Python/FastAPI:** Production PWA backends, automated data pipelines, research automation tools since 2020
- **C#/.NET:** Enterprise microservices at Verisk, architected NuGet package adopted department-wide

- **API Design:** RESTful and GraphQL APIs across all full-stack roles

Frontend Development (5+ Years)

- **React/TypeScript:** Production applications, real-time features, component libraries for multiple clients
 - **Vue.js:** Production PWA (NutriSimple) with devoted user base
 - **Modern JavaScript:** Consistent delivery across enterprise, startup, and freelance environments
 - **Responsive Design:** Mobile-first approaches, Progressive Web Apps, WordPress themes
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PROFESSIONAL EXPERIENCE

Software Development Engineer in Test II

Verisk Analytics | *Lehi, UT* | *September 2024 - Present*

- Architected and implemented first GraphQL contract testing framework for flagship Xactimate Online SaaS product, requiring deep backend integration and API design expertise
- Built comprehensive microservices testing framework for C#/.NET backend systems, validating complex multi-service operations
- **Leading company-wide AI initiative**, evaluating 20+ LLM tools and creating implementation frameworks that increased team velocity by 40%
- Leveraging Windsurf, Cursor, and Amazon Bedrock to accelerate development cycles, demonstrating 90% faster feature delivery
- Created production automation tools using Azure DevOps APIs, reducing manual processes by 80%
- Mentoring senior engineers on AI-augmented development while maintaining critical cross-team backend tools

Full Stack Software Engineer - Independent & Contract Work

Freelance Development & Personal Projects | *Salt Lake City, UT* | *January 2020 - Present*

- **Actively shipping production Laravel/React applications** for 5+ years: Built 15+ client websites and applications
- **Laravel/PHP expertise:** Developed custom social platforms, e-commerce solutions, and API integrations for small businesses to enterprise clients
- **React/TypeScript applications:** Created component libraries, real-time dashboards, and Progressive Web Apps with modern state management

- Built AI-driven text adventure game using React/TypeScript with OpenAI integration for dynamic narrative generation
- Developed production PWA (NutriSimple) with Vue.js frontend and Python/FastAPI backend, achieving organic user growth
- Modernized legacy PHP codebases, implementing Laravel best practices, automated testing, and CI/CD pipelines
- Integrated payment processing (Stripe, PayPal), third-party APIs, and custom WordPress/WooCommerce solutions
- Created custom MCP servers and experimental AI tools, staying at the frontier of development practices

Software Development Engineer in Test I

Verisk Analytics | *Lehi, UT | February 2023 - September 2024*

- **Architected department-wide API client library (C#/.NET NuGet package)** transforming testing paradigm from UI to API-first approach
- Selected as solo QA lead for Vanguard backend microservices team, managing distributed systems and service architecture
- Built CAB automation solution using RESTful APIs and serverless patterns, attracting adoption from multiple teams
- Pioneered system integration testing for complex backend workflows previously untested
- Promoted to SDET II within 1.5 years (1 of 4 selected), recognized for senior-level backend contributions

Full Stack Software Engineer - Contract

Nine Design + Web | *Salt Lake City, UT | January 2023 - January 2024*

- **Spearheaded enterprise social platform using Laravel 8/PHP**, implementing real-time features and RESTful APIs
- Designed scalable MySQL schemas supporting complex relationships and activity feeds
- Built authentication systems, notification services, and data processing pipelines
- Collaborated with React developers to define API contracts and ensure smooth integration

Full Stack Web Developer

Maiden Voyage Software | *Ogden, UT | September 2022 - January 2023*

- **Engineered backend features for SaaS CRM using Laravel/PHP**, including API endpoints and background jobs
- Greenfielded new client application from ground up: designed database schema, built React component library with Storybook
- Optimized database queries achieving 3x performance improvement in critical workflows
- Implemented comprehensive PHPUnit test suites ensuring code reliability
- Built real-time data sync features between frontend and backend systems

Research Associate and Automation Solution Specialist

Scintillant Bioscience | *Murray, UT* | *January 2020 - January 2023*

- Automated data workflows using **Python/Pandas**, reducing 30+ minute processes to sub-second execution
 - Built analysis tools and APIs for laboratory systems integration
 - Developed systematic thinking that now enhances software architecture decisions
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EDUCATION

Bachelor of Science in Computer Science

Weber State University | *Ogden, UT* | *January 2023*

Specializations: Web Development, Game Development | GPA: 4.0 | With Honors

Bachelor of Science in Biology, Philosophy

Utah Valley University | *Orem, UT* | *May 2018* | GPA: 3.5 | Honors Program Graduate

KEY ACHIEVEMENTS & LEADERSHIP

- **AI Innovation Leader:** Spearheading department-wide AI adoption with frameworks modeled across teams
 - **Full Stack Delivery:** Shipped production Laravel applications, React SPAs, and Python APIs
 - **Technical Transformation:** Achieving 90% faster feature delivery through AI tool mastery
 - **Architecture Impact:** Created backend libraries and APIs adopted company-wide
 - **Rapid Learning:** Consistently delivering senior-level work, earning fast-track promotion
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PHILOSOPHY & APPROACH

I believe the future of software engineering lies in intelligently leveraging AI to accelerate development without sacrificing quality. LLMs and AI tools are powerful accelerators that help me ship exceptional PHP applications, React interfaces, and robust APIs faster than traditional methods. I bring this efficiency-focused approach to every project, constantly exploring new ways to optimize workflows while delivering production-ready solutions that scale. The goal isn't to replace solid engineering—it's to amplify it.

ONLINE PRESENCE

Portfolio: daltonorvis.com | **LinkedIn:** linkedin.com/in/dalton-orvis | **GitHub:** github.com/theFourthFirewall