

LEVI MORALES

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Senior full-stack software engineer with over twelve years of experience building custom web applications and leading development strategies to deliver creative and simple solutions to complex problems across numerous industry lines; a quick study excited for new challenges and aspiring to make a positive impact through my work and relationships.

EXPERIENCE

Services Manager at EY

Nov 2018 - Present

- Led the adoption of agile practices across the entire learning department
- Implemented GitHub flow and Azure DevOps CI/CD pipelines, improving process automation and site reliability
- Formed a cross-functional team to develop a component-based, modern digital learning framework using Vue.js and Node.js
- Created a robust content development platform with Laravel, MySQL, Redis, and Vue.js
- Converted core platform applications from legacy LAMP stack to Docker with Compose deployment
- Onboarded and managed offshore development team to assist with platform feature implementation

Senior Software Architect at NogginLabs

Dec 2012 - Oct 2018

- Led the development of more than 20 projects for numerous Fortune 500 companies
- Administered cloud Linux servers hosting PHP and Node.js applications serving 500,000 users
- Improved code quality and standards adherence with custom build and deployment scripts
- Developed and integrated RESTful API services for complex data storage and retrieval
- Lead architect and maintainer of internal front-end courseware framework built with Backbone.js
- Mentored junior developers through pair programming, code reviews, and career counseling

Software Architect at NogginLabs

Oct 2008 - Dec 2012

- Developed open sandbox simulation-based training to teach and assess users on critical job requirements
- Collaborated with graphic and instructional designers to implement complex, dynamic UI/UX
- Implemented SAML authentication in PHP and Node.js using external identity providers
- Built automated script to securely decrypt and import external user data for application integration
- Engaged directly with clients to evaluate needs and craft unique, sustainable solutions to meet them

Freelance Developer

Jan 2013 - Oct 2018

- Designed, developed, and maintained the iOS/Android mobile app for the annual Chicago Craft Beer Week in partnership with the Illinois Craft Brewers Guild using Apache Cordova along with a custom event data API
- Created a location-based lookup tool to match street addresses to Area Agency on Aging service providers using US Census data and Google Geolocation API, with an administrative dashboard built in Laravel
- Developed an integrated digital learning and content development platform to facilitate simulation-based training featuring a real-time leaderboard using WebSockets to display team scores during live in-person training sessions

PROJECT HIGHLIGHTS

Readiness Assessment

Lead system architect and developer for an assessment and reporting platform for a large consumer bank. A simulated bank teller environment built in Vue.js that allows the user to interact with a replica of their real system to complete various customer transactions and requests. User decisions are sent to a backend API built in CakePHP that records and evaluates their performance. These metrics are a critical component in determining an employee's readiness to serve customers. The platform is still heavily relied upon since launching in 2010, receiving frequent feature updates and undergoing annual cybersecurity review.

Learning Experience Platform

Lead system architect and developer for a multi-tenant learning development, publishing, and delivery platform built in Laravel and Vue.js, used by both internal and external teams. Allows the creation of LMS-compatible custom digital training at a scale and speed previously not possible, serving learners with targeted content to meet their specific needs. Users create content by filling out dynamic HTML forms generated by updatable JSON schema files. Provides real-time content collaboration using WebSockets, conflict resolution controls, and revision history. Course package export and uploaded media asset processing with ffmpeg is handled by a background queue system that can be dynamically scaled for efficient parallelization and system resource management.

Soft Skills Conversation Engine

Lead system architect and developer for a gamified system simulation built in Vue.js with Vuex, demonstrating realistic integrated soft skills using a predefined set of real-world situations and job-related tasks to randomly assemble a virtually infinite pool of unique scenarios. Learners are evaluated on their choices to prepare them for new systems and processes that are being implemented in conjunction with the corresponding training. This continues to be adapted to address the needs of clients across various industries from power and utilities to public health.

EDUCATION

University of Iowa

B.A. in Computer Science

Sep 2004 - May 2008

SKILLS

Technical

★★★★★ Javascript, Vue.js, Vuex, Node.js, PHP, Laravel, MySQL, Linux, Sass/CSS, REST API
★★★★★ Apache, Nginx, Git, SVN, Docker, Redis, Azure, Webpack, AdonisJS, Websockets, Bash
★★★☆☆ MongoDB, Angular, CakePHP, Symfony, Electron, Jest, PHPUnit

Hobbies & Interests

Cooking, Homebrewing, Games, Science Fiction, Guitar, Piano, Karaoke, Biking