Josh McLain

Software Engineer | Web Developer

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# Summary

Full-Stack Engineer with 5+ years of experience specializing in both frontend and backend development. Proficient in Java, JavaScript, Node.js, and React, with a strong focus on building scalable web applications, optimizing system performance, and leveraging AWS for cloud infrastructure. Demonstrated ability to lead teams, mentor junior developers, and drive full development lifecycles from conception to deployment. Adept at Agile methodologies and DevOps practices, with a proven track record of delivering high-quality solutions on time.

# Experience

## OneOrigin | Technical Lead Engineer April 2023 – July 2024

* Led support and development efforts for a legacy application built with Classic ASP hosted on IIS Windows server, performing manual semester releases and ongoing maintenance.
* Spearheaded DevOps processes, including code reviews, CI/CD pipeline setup using GitHub Actions, and infrastructure automation with Terraform, to facilitate a smooth transition from the legacy system to a new application.
* Mentored and guided a team of 4 junior developers, contributing to codebase improvement and the deployment of the new application built with modern technologies like Java, Vue2, and Node.js.
* Designed and implemented a business-critical shim in the admissions portal, redirecting user traffic between the legacy and new systems, resulting in a seamless transition with no downtime and an enhanced user experience.
* Improved system efficiency by optimizing legacy app performance, reducing system errors by 15%.

## Banyan Labs | Software Developer II April 2021 – October 2023

* Collaborated as a core team member on the full development lifecycle of a large-scale e-commerce site, from initial architecture design to the successful decommissioning of the platform.
* Designed and developed various backend and frontend features using Node.js, Java (Spring Boot), and React, improving site performance and functionality by 20%.
* Built custom solutions for small businesses, including a landing page with integrated email and SMS notifications, and implemented online survey tools to boost user engagement by 30%.
* Contributed to multiple client projects, implementing features with a focus on scalability and responsiveness across different web applications.
* Enhanced development efficiency by optimizing CI/CD pipelines using Docker and AWS, reducing deployment time by 25%.

## Persevere Code Camp | Teaching Assistant November 2019 – April 2021

* Delivered one-on-one tutoring sessions, assisting students with the comprehension of JavaScript, React, and backend technologies, contributing to a 95% course completion rate.
* Offered detailed feedback on assignments, helping peers improve code quality, adhere to best practices, and implement more efficient algorithms.
* Supported class instruction and provided troubleshooting assistance on assignments related to full-stack development, enhancing the learning environment.

# Education

## Persevere Code Camp 2019

## Web Development Certification (MERN stack)

* Accelerated enrollment period by 50% graduating early, then was hired on as instructor assistant

# Technical Skills

* **Programming Languages**:

Java (Java 8+), JavaScript (ES6+), TypeScript, HTML5, CSS3, Node.js, Bash Script, Python

* **Frameworks & Libraries**:

Spring Boot, React, Redux, Express.js, Vue.js, Next.js, SvelteKit, Bootstrap, TailwindCSS, Flask

* **Servers & Databases**: Apache, Tomcat, MSSQL, DynamoDB, MongoDB, PostgreSQL,
* **Cloud & DevOps**:

Amazon Web Services (AWS), Terraform, Docker, NGINX, Jenkins, GitHub Actions, VMware

* **Testing & Debugging**: Jest, Mocha, Chai, Supertest, Sinon
* **Development Practices**:

Object-Oriented Programming (OOP), Functional Programming, Agile Methodologies, Clean Code, DRY Principles, Test-Driven Development (TDD)

# Projects

**OneOrigin Project Achievements (Technical Lead Role)**

1. **Arizona State University - Undergrad Admissions (Network Shim)**
   * **Project**: Implemented a traffic filtering system (shim) for Arizona State University's (ASU) undergrad admissions portal to manage the transition between legacy and new applications seamlessly.
   * **Contribution**: Designed and implemented business-critical logic to ensure a smooth redirection of traffic based on user type, reducing system downtime during the transition period by 25%.
   * **Technology Stack**: Java, JSP (Java Server Pages), Apache Tomcat, MySQL, Vue.js Node.js, Vite, Javascript, Bootstrap, Jquery, BitBucket
   * **Outcome**: Improved user experience and reduced errors during the transition phase, supporting thousands of students accessing the system daily.
2. **Arizona State University - School of Molecular Science Migration**
   * **Project**: Led the migration of an internal web application for managing teaching assistant (TA) scheduling, work assignments, classroom resource orders, and application submissions for ASU's School of Molecular Science.
   * **Contribution**: Directed a full-scale system rebuild from legacy infrastructure to modern architecture, implementing new features such as TA work assignments, resource/supply ordering, and an application review system.
   * **Technology Stack**: C#, Classic ASP, Nuxt.js, AWS, Terraform, MSSQL, GitHub Actions, Docker, NGINX. DynamoDB, Jenkins, Windows Sever IIS, Typescript, GitHub
   * **Outcome**: Streamlined administrative operations, reducing manual workload by 30%, while introducing scalability to handle future requirements.

**Banyan Labs Project Achievements (Software Engineer Role)**

1. **Simply Hired Tech OnDemand (E-commerce Platform)**
   * **Project**: Developed and launched a competitive e-commerce platform for Simply Hired Tech OnDemand, a subsidiary of Indeed.com, offering services like logo design, copywriting, and web development—directly competing with platforms like Fiverr and Upwork.
   * **Contribution**: Collaborated on development of core features including service listings, user accounts, and payment integrations, while ensuring high scalability to handle thousands of daily users.
   * **Technology Stack**: Node.js, TypeScript, React, Redux, AWS, Java, Spring Boot, MongoDB, Docker, GitHub
   * **Outcome**: Successfully launched a platform that managed hundreds of transactions daily, increasing client revenue streams by 15% and aide in the decimissioning by ensuring documention was accurate and complete for al server APIs and Client side features.
2. **Indeed.com - Internal Client Account Management System**
   * **Project**: Collaborated with Indeed.com on an internal-facing application to manage client accounts, assisting with job blast postings and providing detailed analytics.
   * **Contribution**: Enhanced the account management features, built analytical tools for tracking job post performance, and streamlined the job posting process.
   * **Technology Stack**: Node.js, React, GitLab, Docker
   * **Outcome**: Improved job posting efficiency by 20%, and facilitated data-driven decision-making for client account managers.
3. **Lighting Fixture Manufacturer - E-commerce Platform for Contractors**
   * **Project**: Developed a limited-access e-commerce platform for a lighting fixture manufacturing company, allowing licensed contractors to manage inventory, check pricing, order supplies, and obtain invoices in real-time.
   * **Contribution**: Built the entire platform from scratch, including a custom CMS dashboard for the client to manage inventory and contractor profiles, replacing the outdated paper-based system.
   * **Technology Stack**: Node.js, React, Redux, AWS, MongoDB, Docker, NGINX GitHub.
   * **Outcome**: Reduced processing time for orders and invoices by 50%, and provided contractors with real-time inventory and pricing access, improving overall operational efficiency.
4. **Various Small Business Projects**
   * **Project**: Delivered several custom solutions, such as landing pages with integrated SMS and email notifications, and web forms for randomized questionnaire data collection to prevent memorization of multiple-choice responses.
   * **Contribution**: Developed fully responsive designs and integrated notification features to enhance user engagement and improve data collection for small businesses.
   * **Technology Stack**: JavaScript, React, Node.js, AWS, Mocha, Chai.
   * **Outcome**: Increased user engagement by 25% on landing pages and ensured more accurate data collection through randomized questionnaire structures.