Sajana Wijesinghe

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Full Stack Engineer

Full-stack developer with experience as a software engineer, specializing in Java, React, and distributed systems. Advanced UI and system architecture modernization projects and optimized security measures for scalable enterprise systems. Actively enhancing cloud-native application skills and eager to leverage them for innovative solutions that blend AI and user-centered design.

Skills

- **Frontend**: JavaScript, React, TypeScript, HTML, CSS, GraphQL, jQuery, Responsive Design, Mobile Compatibility, Modern, Next.js
- **Backend**: Java, Spring Boot, Python, RESTful APIs
- **Database**: SQL, PostgreSQL, Appwrite, MongoDB
- **Tools & Frameworks**: Spring Boot 3, Kafka, Node.js, GitHub Copilot, ChatGPT, Bootstrap, Tailwind CSS
- **Platforms & IDEs**: Linux, Unix, Windows, IntelliJ, Sublime Text, WebStorm
- **Cloud & DevOps**: AWS (in progress), API development, integration

Certifications

- **AWS Certified Solutions Architect Associate (SAA-C03): (In Progress)**
- **CISA Certification: (In Progress)**
- **Udemy Full-stack Developer Course: (Completed)**

Professional Experience

Freelancer   Jul 2025 - Present
Full-Stack Developer

- Implemented a polished hero and content-first homepage featuring an archival letter and clear CTA flows.
- Developed modular React components for hero, petition UI, newsletter signup, and document upload/classification.
- Added petition count and signatory display with graceful fallback to localStorage and backend-ready API wiring.
- Delivered mobile-first styling with Tailwind, semantic markup, basic a11y considerations, and cross-browser QA.
- Provided a deployment-ready repo and documentation for handoff and future feature expansion (auth, dynamic blog pages, and email notifications).

General Motors   May 2022 - Jul 2025
Software Engineer

- Spearheaded UI modernization using React, TypeScript, and Bootstrap to enhance accessibility, maintainability, and performance optimization.
- Strengthened enterprise security by optimizing access control and authentication APIs, mitigating risks, and improving protection against threats.
- Designed and implemented role-based access control (RBAC) for improved scalability and security compliance.
- Led Kafka messaging system development, optimizing event-driven architecture and improving message processing efficiency across distributed applications.
- Refactored legacy components and tightened performance bottlenecks, accelerating load times and reducing resource consumption across mission-critical web interfaces.
- Incorporated GitHub Copilot and ChatGPT into development workflows to generate JavaDocs, unit tests, and technical documentation, enhancing development speed and quality.
- Conducted backward compatibility assessments, ensuring seamless integration of new features while preserving system stability.
- Led code reviews, architectural discussions, and approval processes, shaping technical direction and maintaining development standards.
- Authored detailed technical stories, defining structured development roadmaps for engineers to execute effectively.

CVS Health   Jun 2020 - Apr 2022
Operations Supervisor

- Managed daily store operations, ensuring financial accuracy and adherence to regulatory compliance.
- Conducted proactive staffing and inventory assessments, optimizing workflows for efficiency and improved customer satisfaction.
- Resolved customer concerns through team-driven problem-solving, fostering a positive environment aligned with company objectives.

Verbotics AI   **Jan 2020 - May 2020**
Project Leader & Frontend Developer
- Led a modernization initiative for IT infrastructure, assessing medical usage metrics and defining access control improvements, which enhanced system security and efficiency
- Designed and implemented AI-powered search functionality, improving efficiency in information retrieval and reducing search time for users
- Directed project execution through effective delegation, delivering a comprehensive proposal, prototype, and stakeholder presentation for approval and implementation.

Education

University of Massachusetts Boston   **Sep 2016 - May 2020**
Bachelor of Science, Computer Science   *Boston*

Publications

- Engineered a tenant classification program optimizing rent payment processing - Mass Housing Project.
- Developed predictive analytics models using Linear Discriminant Analysis - Crime Forecasting System (CSM Showcase)

Languages

- English (Fluent)
- French (Fluent)