VAISHAVI VIJAYAKANDAN

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SUMMARY

As a passionate full-stack developer with three years of experience, I specialize in designing, developing, and deploying scalable and international software solutions using front-end and back-end technologies such as React.js, Java, and Node.js, enhancing user experiences and operational excellence.

EDUCATION

Master of Science in Computer Science   **Expected Dec 2024**
The George Washington University, School of Engineering & Applied Science │ GPA - 3.7/4   **Washington, DC**

Bachelor of Engineering in Electronics and Communication   **Aug 2017 - Apr 2021**
Anna University, SSN College of Engineering │ GPA - 8.3/10   **Chennai, India**

SKILLS

- **Front-end:** React.js, Javascript, HTML, CSS, Bootstrap, Typescript.
- **Back-end:** Java, Spring Boot, Python, Node.js, RESTful APIs, Hibernate.
- **Database & Cloud Technologies:** SQL (MySQL), MongoDB, SPARK, AWS services (S3, Lambda, EC2).
- **Tools & Version Control:** Git, Jira, Docker.

ACHIEVEMENTS

- Recipient of the GW Dean's Award, securing a **scholarship over $30,000** for **exemplary academic performance.**
- **Oracle** Certified Professional **JAVA 11 Developer**.

WORK EXPERIENCE

Software Specialist │ The George Washington University │ Washington, DC   **February 2023 - Present**
Smart Campus User Interface, Tech Stack: React, C#, Cloud Infrastructure, Scalable Architecture, API Integration

- **Developed** and deployed an interactive touch panel for **800+ educational facilities** using **React**, which boosted system responsiveness and user engagement.
- **Configured real-time camera control** on touch panels for flexible viewing angles, **optimizing campus resources** and ensuring accessible, high-quality content for diverse teaching methods and student needs.
- **Collaborated with backend teams** to smoothly integrate **C# cloud-based systems**, thus improving system reliability.
- Drove the development of scalable, global solutions **from architecture design to deployment**, ensuring **high availability** and performance in a fast-paced environment, significantly enhancing user and customer experiences.

Software Engineer │ Larsen & Toubro InfoTech │ India   **Aug 2021 - Dec 2022**
Banking KYC Application, Tech Stack: React, Java, Spring, MySQL, CI/CD, Agile, API, Security Compliance

- **Developed** a customer onboarding module using React, integrated with Java and Spring, which **reduced onboarding time by 25%** and enhanced system efficiency through **CI/CD implementation.**
- Enhanced a transaction monitoring system that **improved security alerts by 30%**, leveraging Agile methodologies and MySQL, thereby enabling **faster detection of anomalies** and reducing potential risks by 20%.
- **Implemented** a customer profile management module with **secure API endpoints**, allowing over 10,000 users to easily update their information, thus enhancing user experience.
- Optimized a compliance reporting module, generating detailed reports on client data and transaction histories, which **reduced report generation time by 30%**, leading to a 15% improvement in overall operational efficiency.
- **Mentored 5 junior developers** and led cross-functional teams, driving a 20% increase in project delivery efficiency while fostering a culture of innovation, aligning with corporate strategies.

PROJECTS

Aircraft Anomaly Detection │ Tech Stack: Python, React, TensorFlow

- Developed a user-centric **dashboard with React** for quick monitoring and analysis of AI model outputs, which significantly enhanced decision-making when recognizing aircraft anomalies.
- Developed and executed the Negative Sampling Neural Network and Enhanced Isolation Forest, with **AUC values of 82% and 85%**, respectively, with the use of integrated XAI techniques (LIME, SHAP, IG, LRP) to explain model decisions.

ChatterSphere │ Tech Stack: React, Node.js, Express, WebSockets, MongoDB, JWT, bcrypt, Vite

- Developed and deployed a **real-time** chat application using React, Node.js, and WebSockets, enabling seamless live communication for users with **secure authentication** and **file-sharing capabilities**, resulting in a 25% increase in user engagement through the integration of features like online/offline statuses and auto-scroll for better user experience.