

VAISHAVI VIJAYAKANDAN

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SUMMARY

With about three years of professional experience, I am a driven software engineer focused on creating software solutions that boost efficiency and streamline operations. As a quick learner with a strong technical background, I efficiently adapt to new technologies and approaches, thriving in dynamic team environments.

EDUCATION

Master of Science in Computer Science

The George Washington University, School of Engineering & Applied Science | GPA - 3.7/4

Expected Dec 2024

Washington, DC

Bachelor of Engineering in Electronics and Communication

Anna University, SSN College of Engineering | GPA - 8.3/10

Aug 2017 - Apr 2021

Chennai, India

SKILLS

- **Front-end:** React.js, Javascript, HTML, CSS, Bootstrap.
- **Back-end:** Java, Spring Boot, Node.js, RESTful APIs, Hibernate, Python, C, C++.
- **Database & Big Data:** SQL (MySQL), MongoDB, SPARK, AWS.
- **Tools & Version Control:** Git, Jira.

ACHIEVEMENTS

- Oracle Certified Professional JAVA 11 Developer.
- Awarded the GW Dean's Award for academic excellence, receiving a scholarship of over \$30k.

WORK EXPERIENCE

Software Specialist | The George Washington University | Washington, DC

February 2023 - Present

- Designed and deployed an interactive **touch panel** interface for over **800 educational facilities** using **React**, boosting user interaction and system responsiveness.
- Implemented live streaming and audio control functionalities by integrating a dedicated Streaming Service and an Audio Control Service, supporting over **50 streams simultaneously**.
- Collaborated with backend developers to integrate these systems with C# backends running on cloud infrastructure, delivering seamless functionality.
- Led the project from **architecture design to deployment**, ensuring scalability and stability by employing appropriate design patterns in high-level structures and components, significantly enhancing user satisfaction.

Senior Software Engineer | Larsen & Toubro InfoTech | India

Aug 2021 - Dec 2022

- Developed a customer onboarding module using **React** for the UI, integrated with a **Java and Spring backend**, implemented via **CI/CD**.
- Designed a transaction monitoring system, improved security alerts using **Agile approaches**, and utilized **MySQL** for efficient data management.
- Implemented a customer profile management module with **secure API endpoints** that allow customers to access and change their information, consequently improving user interaction and data security.
- Optimized a compliance reporting module that can generate and export detailed reports on client data and transaction histories, cutting report generation time by 30%.

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, significantly enhancing 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, Integrated Gradients, LRP) to explain model decisions.

Farmer Scheme | Tech Stack: React, Java, Spring, Hibernate

- Developed a **full-stack online marketplace with a highest bidder system** to optimize farmers' earnings through real-time bidding, user authentication, and dynamic product listings.
- Integrated backend processes with an SQL database, enhancing data management and ensuring smooth operation of real-time auctions.