

# JAIYANTH LAKUMARAPU

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## SUMMARY

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Software Engineer with experience in full-stack web development and testing, specializing in designing and deploying scalable, robust enterprise web applications. Proficient in ReactJS, NodeJS, Spring Boot, and AWS cloud services, with expertise in data modeling, database management, and data visualization. Adept at managing all phases of the software development life cycle (SDLC), including requirements gathering, system design, testing and deployment. Passionate about contributing to innovative projects within collaborative team environments.

## EDUCATION

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| <b>George Mason University, USA,</b>           | <b>May 24</b> |
| Masters in Computer and Information Sciences   | 3.61/4        |
| <b>Vellore Institute of Technology, India,</b> | <b>May 22</b> |
| Bachelor of Technology in Computer Science     | 8.71/10       |

## SKILLS

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**Languages:** Java, Python, JavaScript, HTML/CSS, TypeScript, SQL

**Frameworks and Libraries:** ReactJS, NextJS, NodeJS, FastAPI, Django, SpringBoot, Tailwind CSS, Bootstrap, AG Grid

**Databases:** MySQL, MongoDB, Firebase, Oracle

**Tools:** AWS, GitHub, Babel, Webpack, NPM, Postman, Docker, Figma

**Data Visualization and Testing:** Recharts, Jest, React Testing Library, JUnit

**Operating Systems:** Linux, Windows

## EXPERIENCE

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**Software Engineer, CGI, PA, USA,** **August 24 - Present**

- Developed microservices with Spring Boot and RESTful APIs, enhancing system scalability and operational reliability.
- Built dynamic frontend applications using JavaScript, React JS, and Material UI, improving user engagement and experience.
- Experience in writing test cases with the help of JUnit testing framework and configured applications on WebLogic Server.
- Streamlined CI/CD pipelines with AWS services and SonarQube ensuring consistent code quality and secure deployments.
- Used GitHub for version control ; configured Maven for dependencies and Log4J for logging.

**Full-Stack Developer, George Mason University, VA, USA,** **March 24 - May 24**

- Developed key features for the university's website using React.js, TypeScript, and Node.js, boosting overall system responsiveness.
- Architected RESTful APIs to ensure scalable and seamless data exchange between backend services and external systems.
- Implemented OAuth 2.0 for secure authentication, enabling integration with protected resources across university systems.
- Built AI-powered chatbots using OpenAI models, automating validation of test assessments and reducing manual workload by 40%.
- Used function-calling techniques with OpenAI models in the chatbot for API calls within Canvas LMS, increasing efficiency by 20%.

**Software Engineer, Green Buds Technologies, AP, India,** **June 20 - May 22**

- Developed modular features for the E-commerce platform using React, Spring Boot, and Django, ensuring seamless user experience.
- Built a dynamic admin dashboard with real-time insights into sales, inventory, and user behavior, using React.js, Recharts and AG-Grid.
- Implemented a microservices architecture with REST and GraphQL APIs for independent service management across the system.
- Designed and optimized database schemas with focus on normalization and indexing, improving data retrieval speed by 35%.
- Secured data access by implementing JWT authentication, ensuring authorized interactions with MongoDB database.
- Created test documentation, including test cases, and reports, while actively contributing to manual testing.

## PROJECTS

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**Netflix AI - netflix with AI movie suggestion feature,** **May 24**

- Built a Netflix-like platform with ReactJS, Tailwind and Firebase for user authentication and real-time database.
- Employed OpenAI model (turbo3.5) for movie recommendations based on user input in over 100 languages.

**Hungry Hub - Food Ordering System,** **April 24**

- Designed a Food Order System with 4+ food categories using MVC architecture React JS, Node.js, Tailwind.
- Integrated backend services with RESTful API's, Firebase authentication, and MongoDB for database management.

## CERTIFICATIONS

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- Machine Learning with python - Cognitive Class.ai
- Role of Data Analyst - NASSCOM

## ACHIEVEMENTS

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- Placed 3rd in university-level hackathon hosted by the CS department for developing a campus recruitment portal.
- Secured 6th position in engineering clinics Expo for developing gas leakage detector.