

Sathvik Reddy Kakulavaram

Full Stack Developer

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Summary:

Versatile Full Stack Developer with **4+ years of experience** designing and building **scalable, cloud-native systems** using **Java, Spring Boot, React.js**, and **AWS**. Adept at developing **secure RESTful APIs**, integrating **serverless architectures**, and optimizing **performance** in **production-grade applications**. Proven ability to work across cross-functional teams, lead backend and frontend development, and deliver **robust, testable code** in **Agile environments**.

Experience:

Intel, USA | Software Engineer

Jan 2025-May 2025

- Engineered full-stack financial systems using **Spring Boot (Java)** and **React.js**, improving system scalability.
- Developed and deployed 15+ **secure RESTful APIs** handling **100K+ financial transactions** daily using AWS RDS.
- Reduced **API security vulnerabilities** by 20% through JWT-based authentication and OWASP-compliant practices.
- Built backend logic with **Java** and **Express.js**, ensuring encrypted data exchange via **JWT** and **OAuth 2.0**.
- Accelerated feature delivery by 25% by collaborating with product/UX teams in Agile sprints.
- Delivered responsive UI components aligned with user workflows, enhancing user experience and task efficiency.
- Deployed serverless infrastructure using AWS Batch, SNS, and RDS to support high-throughput transaction data.

HCL Technologies Limited, Chennai, India | Software Engineer

Aug 2021-Aug 2023

- Built Guidewire CC modules using **Gosu, Java**, and **XML**, integrating **LexisNexis, CCC**, and **third-party services**.
- Improved test coverage by 35% and reduced **post-release issues** by 20% through comprehensive GUnit test suites.
- Optimized workflows and business rules, cutting claims cycle time and **increasing process efficiency**.
- Resolved high-priority production issues via deep **log analysis** and **tuning**, **cutting downtime** by 30%.
- Led **peer code reviews** and enforced standards, lowering **defect rates by 20%** and enhancing maintainability.
- Implemented secure **API integrations** with external systems, improving **data reliability** and **reducing response time**.
- Streamlined batch jobs and policy integrations, **reducing manual effort** and **boosting system throughput**.

Dell Technologies, India | Software Engineer

Jan 2020-Jul 2021

- Achieved **40% test coverage** for critical modules using **JUnit** and rigorous **TDD** methodologies.
- Architected and deployed **RESTful APIs** for **CRUD** operations and billing system integrations.
- Reduced **third-party API failures** by 20% via **robust error handling** and **retry mechanisms**.
- Boosted user engagement by 30% by **redesigning responsive** UIs using Tailwind CSS and Bootstrap.
- Conducted functional and integration testing using **JUnit** and **Postman**, ensuring **robust service validation**.

Skills:

- Programming Languages:** Java, JavaScript, Python, SQL
- Frontend Technologies:** HTML5, CSS3, React.js, Tailwind CSS, Bootstrap
- Backend & APIs:** Spring Boot, Spring MVC, Hibernate (JPA), Node.js, Express.js, REST APIs, Microservices
- Databases:** MySQL, SQL Server, MongoDB, Postgres, Redshift
- Tools & DevOps:** Maven, Gradle, Git, GitHub, Jenkins, Docker, Kubernetes, Postman, Log4j
- Cloud Platforms:** AWS (EC2, S3, Lambda, ECS, RDS, SNS, SQS)
- Testing:** JUnit, Postman, TDD, Integration Testing
- AI/ML Tools:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, OpenAI
- Others:** Jira, Confluence, Agile/Scrum, Typescript, Kafka, Redis, Spring Security, Linux.

Education:

Masters in Computer Science, University of South Florida, Tampa, USA | **Aug 2023 -May 2025**

Coursework: Hardware Accelerators for Machine Learning, Affective Computing, Introduction to AI, Human-Computer Interaction, Smart & Connected Health, Security and Privacy in Machine Learning, Introduction to Theory of Algorithms.

Projects:

Blockchain NFT Marketplace Platform:

- Built a blockchain-based NFT platform using **Solidity, React.js**, and **Web3.js**.
- Enabled minting, listing, and secure wallet-based transactions via MetaMask integration.
- Deployed smart contracts to IPFS and launched UI with **real-time event feedback** and transaction confirmation.

Reinforcement Learning-Based Robotic Simulation:

- Built a Q-learning agent within **Coppelia Sim** using **Python** and **ZMQ Remote API**.
- Improved simulation efficiency by automating decision-making logic through iterative training.

AI Task Planner using FOON & Advanced Search Algorithms:

- Designed a FOON-based task planner with **A star Search, IDS**, and **MCTS** for food preparation automation.
- Serialized FOON data for **efficient motion planning** and improved task tree generation.