

Karthik Reddy Marla

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Summary

Software Engineer with 3 years of experience, including a recent internship at JP Morgan, developing scalable web applications using React.js, Spring Boot, and MySQL. Skilled in RESTful APIs, JWT authentication, AWS deployment (EC2/RDS), and CI/CD pipelines (GitHub Actions, Jenkins). Strong in unit/integration testing (Jest, Mocha, Postman), performance optimization, and Agile collaboration, with additional experience mentoring students as a Graduate Teaching Assistant.

WORK EXPERIENCE

JPMorgan Chase

Wilmington, DE

Software Engineer Intern, Internship

May 2024 - Nov 2024

Worked on the development of internal banking applications, contributing to both frontend and backend components using React.js, Spring Boot, and MySQL. Participated in designing RESTful APIs, implementing JWT-based authentication, and optimizing database performance. Supported cloud deployment on AWS (EC2, RDS) and automated CI/CD pipelines with GitHub Actions and Jenkins, ensuring secure, scalable, and reliable releases.

- Collaborated with senior developers and cross-functional teams to enhance enterprise banking applications, ensuring adherence to financial industry standards.
- Participated in code reviews and Agile sprints, contributing to high-quality, maintainable code and continuous delivery cycles.
- Gained experience in large-scale system architecture and performance tuning, supporting real-time data processing and high traffic workloads.

MOVATE

Hyderabad, India

Software Engineer, Full-time

Feb 2021 - Aug 2022

Joined MOVATE Technologies as a graduate trainee and focused on developing responsive, user-centric web applications using React.js, Tailwind CSS, and Redux Toolkit. Collaborated with backend teams to integrate APIs, worked in Agile sprint cycles, and contributed to delivering high-quality UI components that enhanced user experience and engagement. Gained experience in testing with Jest and React Testing Library while adhering to code review best practices.

- Collaborated in a cross-functional team of 6 developers and testers to deliver a scalable e-learning platform for an enterprise client, focusing on features like course enrolment, progress tracking, and content delivery.
- Developed responsive user interfaces using React.js, Tailwind CSS, and Redux Toolkit, improving accessibility and reducing page load times by 30% across devices.
- Integrated frontend components with backend REST APIs and optimized MySQL queries, improving data retrieval efficiency and scalability for high-traffic environments.
- Participated actively in Agile sprints, contributing to code reviews, sprint planning, and achieving 90%+ test coverage with Jest and React Testing Library, ensuring high-quality deliverables.

Lead Software Engineer, Full-time

Sep 2022 - Jun 2023

Progressed into a Full Stack Developer role, taking ownership of both frontend and backend development for enterprise projects. Designed and implemented RESTful APIs with Spring Boot, developed secure authentication systems using JWT and Spring Security, and led cloud deployment using AWS (EC2, RDS). Played a key role in automating CI/CD pipelines with GitHub Actions, optimizing performance, and mentoring junior developers, ensuring high-quality, scalable solutions within Agile development cycles.

- Led the full-stack development of critical modules (product catalog, order processing, and authentication) in a team of 5 engineers, delivering a high-performance e-commerce platform for a retail client.
- Designed and deployed secure RESTful APIs with Spring Boot, implemented JWT-based authentication with Spring Security, and enforced role-based access control to protect sensitive user data.
- Spearheaded cloud deployment on AWS EC2/RDS and automated CI/CD pipelines using GitHub Actions, reducing deployment times by 40% and ensuring 99.9% system uptime.
- Mentored 2 junior developers on best practices in React.js and Spring Boot, and optimized performance through lazy loading, code splitting, and database indexing, achieving a 25% improvement in system response time.

Wilmington University

New Castle, DE

Graduate Teaching Assistant

Jan 2025 - Apr 2025

- Served as an Academic Assistant, supporting faculty in teaching web development and programming courses by assisting students with coding assignments, clarifying technical concepts (React.js, Java, SQL), grading projects, and facilitating lab sessions to enhance learning outcomes.

PROJECTS

SmartCommerce – Full Stack E-commerce Application

[Git LINK](#)

Tech Stack : React.js, Redux Toolkit, Context API, Tailwind CSS, Spring Boot, MySQL, AWS (EC2, RDS), GIT

A full-stack e-commerce platform enabling product browsing, cart management, secure checkout, and order processing, built with scalability, security, and cloud deployment best practices.

- Developed responsive, modular UIs using React.js, Redux Toolkit, Context API, and Tailwind CSS, ensuring cross-browser compatibility and reducing page load times by 30%.
- Designed and deployed secure RESTful APIs with Spring Boot, integrated JWT-based authentication and Spring Security, and optimized MySQL schemas for scalable backend performance.
- Deployed backend services to AWS EC2/RDS, containerized the application using Docker, and automated CI/CD pipelines with GitHub Actions, cutting deployment time by 40%.
- Implemented comprehensive unit and integration testing using Jest, React Testing Library, Mocha, and validated APIs with Postman, achieving 90%+ test coverage.
- Enhanced performance through lazy loading, code splitting, and database indexing.

SKILLS

- **Frontend Development:** React.js, Redux Toolkit, Context API, Tailwind CSS, JavaScript (ES6+), TypeScript, HTML5, CSS3, Responsive Design, API Integration
- **Backend Development:** Java, Spring Boot, Node.js, Express.js, RESTful APIs, JWT Authentication, Spring Security, MVC Architecture
- **Database Management:** MySQL, PostgreSQL, MongoDB, Database Schema Design, Query Optimization
- **Cloud & DevOps:** AWS (EC2, RDS), Docker, CI/CD Pipelines (GitHub Actions, Jenkins), Cloud Deployment
- **Testing & Quality Assurance:** Jest, React Testing Library, Mocha, Postman, Unit Testing, Integration Testing, Automation Testing
- **Version Control & Tools:** Git, GitHub, Jira, VSCode, Agile Methodologies, Code Reviews
- **Performance & Optimization:** Lazy Loading, Code Splitting, API Caching, Database Indexing, Security Best Practices

EDUCATION

Master’s in Information Systems Technologies	Aug 2023 - May 2025
Wilmington University , GPA: 3.6	New Castle, DE
Relevant Coursework: Data Structures & Algorithms, Software Development, API Development, Databases (SQL & NoSQL), System Design, Distributed Systems, Cloud Computing, Java (Spring Framework), Front-End Development (React.js, HTML, CSS), MySQL, PostgreSQL	

Bachelor of Science in Electronics and Communications Engineering	
Jawaharlal Nehru Technological University	Jun 2019

CERTIFICATIONS

AWS Certified Developer – Associate	Jan 2025
Amazon	
Meta Front-End Developer Professional Certificate	Aug 2024
Coursera	