KARTHIK VEERLA

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SUMMARY

With over 4 years of experience, I design, develop, and maintain scalable full-stack applications using Java, Spring Boot, Angular, React, and Node.js, leveraging microservices architecture with RESTful APIs via Hibernate and JPA for efficient distributed systems. My expertise spans front-end development with JavaScript, TypeScript, HTML5, CSS3, Bootstrap, and Tailwind CSS, delivering responsive UIs, and back-end work with AWS, Azure, Docker, Kubernetes, and Jenkins CI/CD pipelines for automated deployments. I apply OOP, SOLID principles, and design patterns (MVC, MVVM) in Agile settings (Scrum, Kanban), using Postman, JUnit and Selenium for robust debugging, testing, and high-quality software delivery.

EDUCATION

MASTER'S DEGREE | Computer and Information Sciences | University at Albany(SUNY)
BACHELOR'S DEGREE | Computer Science and Engineering | KLUniversity, Vijayawada

TECHNICAL SKILLS

Java, C, C#, Python, JavaScript, TypeScript, HTML5, CSS3, Spring Boot, Django, ReactJS, AngularJS, Node.js, JUnit, Oracle SQL, MySQL, Postgres, MongoDB, DynamoDB, SQL Server, Azure, Jira, Docker, Kubernetes, Jenkins, Git, GitHub, VS Code, Selenium, RabbitMQ, OOP, Agile, CI/CD, Version Control, Unit/Integration Testing, REST APIs.

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPMENT SPECIALIST | New York Health Research Inc | Albany, NY **Oct 2024 – present**

- Engineered software prototypes and applications using Python, Django, JavaScript, and Oracle SQL, resulting in a 30% improvement in data management and diagnostics efficiency. Integrated third-party APIs and libraries, reducing development time by 25% through efficient interpretation and implementation of technical documentation.
- Extended workflow automation using Python scripts and AWS Lambda, increasing task efficiency by 20%, while tracking progress with Jira to ensure timely delivery of polished solutions.
- Built and tested JavaScript-based front-end components with Jest, improving UI responsiveness by 15%, and utilized Jira for sprint planning and bug tracking to maintain high code quality.

SOFTWARE DEVELOPER | New York State Office of Information Technology | Albany, NY **Jan 2024 – Sep 2024**

- Developed and streamlined Java-based microservices using Spring Boot, Hibernate, and REST APIs, improving system efficiency and reducing response time by 35%. Achieved 99% system uptime by meticulously enhancing and refining Linux and Unix system performance for exceptional reliability.
- Updated database performance by optimizing SQL queries and implementing caching strategies, reducing execution time and improving backend efficiency.
- Utilized AWS ECS, Lambda, and S3 to implement scalable cloud-based solutions, improving system resilience for 300+ websites and 35M+ user accounts on the NY.gov ID Platform.

RESEARCH ASSISTANT | SUNYRF | Albany, NY **Jan 2023 – Dec 2023**

- Engineered prototypes using Python, Django, and JavaScript, improving data management and diagnostics efficiency by 30% for research teams. Integrated third-party APIs, cutting development time by 25% with efficient technical documentation interpretation and implementation.
- Enhanced automation with Python scripts and AWS Lambda, boosting task efficiency by 20%, and tracked progress using Jira for timely delivery. Built and tested JavaScript components with Jest, improving UI speed by 15%, and used Jira for sprint planning and quality assurance.

SOFTWARE DEVELOPER | Hexagon Capability Center India | Hyderabad, INDIA **Aug 2020 – Aug 2022**

- Successfully resolved 95% of critical software bugs and generated a highly responsive React-based UI, reducing customer support tickets by 25% while significantly enhancing overall user experience quality.
- Collaborated extensively with cross-functional teams using Azure DevOps, Visual Studio, and Git, ensuring 99.9% alignment with detailed user requirements and maintaining consistent project deliverables.
- Thoroughly optimized Java and Spring Boot backend logic through rigorous code reviews and refactoring, achieving a 30% faster response time for RESTful services critical to application performance.
- Designed and implemented microservices architecture using Java and Spring Boot, improving data processing efficiency by 25% across high-performance distributed systems supporting enterprise solutions