Vamsi Vattigunta

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PROFESSIONAL SUMMARY

Full Stack Developer with 3+ years of experience in designing, programming, and supporting enterprise software applications. Proficient in React, JavaScript, TypeScript, Java, Node.js and AWS. Skilled in building RESTful APIs, optimizing backend services, and managing databases (Postgres, MongoDB). Strong problem-solving abilities with a focus on performance and scalability.

EDUCATION

University of Cincinnati	Aug 2023 – May 2025
Master of Engineering in Computer Science	GPA: 3.91/4.0	Cincinnati, OH
Geethanjali College of Engineering and Technology	Jul 2016 – Sep 2020
Bachelor of Technology in Electronics and Communication Engineering	GPA: 3.5/4.0	Hyderabad, India

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Java, Python, C#
Frontend: React.js, Redux, Next.js, TypeScript, JavaScript (ES6+), Angular, HTML5, CSS3
Backend: Node.js, Java, Python, Spring Boot, REST, Microservices, Kafka
Cloud & DevOps: AWS (ECS, Lambda, SNS, SQS, EKS, Amazon CloudFront), Azure, Docker, Kubernetes, CI/CD
Databases: PostgreSQL, MySQL, NoSQL (MongoDB), GraphQL
Tools: Git, Jira, Jest, Postman, Redis, Github, NPM, Webpack, Babel

WORK EXPERIENCE

Software Developer — Nov 2024 – Present
Information Technology Analytics Center-University of Cincinnati — Cincinnati, OH

- Developed UC's grant tracking platform using React.js, Redux and Node.js, deployed on AWS ECS with auto-scaling to achieve 99.99% uptime and response times under 2 seconds.
- Reduced query latency by 30% through PostgreSQL indexing and Redis caching.
- Implemented OAuth 2.0/JWT authentication with role-based access control (RBAC) for secure user management.

Software Engineer — Nov 2021 – Aug 2023
TATA Consultancy Services Limited — Hyderabad, India

- Spearheaded the development of an insurance claims application using React.js, TypeScript, simplifying customer workflows by enabling direct claim submissions, cutting settlement times by 40%.
- Engineered scalable backend services with REST APIs in Java Spring Boot within a microservices architecture, automating claim creation and reducing manual intervention by 90%.
- Integrated event-driven architecture using AWS Lambda, SNS, and SQS, enabling real-time updates and synchronization across systems, improving claim visibility, and reducing data latency by 33%.
- Optimized application performance by reducing page load times by 50% through caching, code splitting, and lazy loading, while ensuring cross-browser compatibility and accessibility.
- Collaborated with DevOps teams to deploy services on AWS EKS using Docker and Kubernetes, ensuring reliable deployments.

Assistant Software Engineer — Nov 2020 – Nov 2021
TATA Consultancy Services Limited — Hyderabad, India

- Delivered a React.js, Node.js feature for mid-term policy adjustments, enabling 65% of users to modify insurance policies online.
- Refactored complex business logic with OOP and SOLID principles, improving code maintainability and system scalability.
- Designed unit tests with Jest, achieving 95%+ test coverage and reducing bugs by 30% through test automation.
- Worked in Agile teams (Kanban, Scrum) using Jira and Confluence to track progress and maintain project documentation.

ACADEMIC AND PERSONAL PROJECTS

Shortest Path finder | (HTML, CSS, JavaScript, React.js)

- Developed an application using Dijkstra's algorithm, simulating the core functionality of Google Maps by showcasing the shortest path between two nodes, with an interactive and user-friendly interface.

Quiz Application | (Java, Spring Boot, Microservices, PostgreSQL, AWS)

- Constructed a quiz application with RESTful API endpoints to handle quiz creation, user participation, scoring, and result management, improving system efficiency and user engagement.
- Deployed the application on AWS EC2, leveraging scalable compute resources to ensure high availability and performance.

Consumer Behavior Analysis | (Python, Microsoft Azure, Machine Learning)

- Developed Azure-based analytics platform using a machine learning algorithm (Random Forest) and Azure SQL, analyzing retail trends to generate actionable insights on customer engagement and demographics.

ACHIEVEMENTS AND AWARDS

- **Graduate Incentive Award**: 65% University Fee Waiver for Academic Excellence, University of Cincinnati.
- **Star of the Quarter Award**: Delivered 18 defect resolutions and 9 user stories in a single quarter at TCS.
- Solved 160+ LeetCode problems in 3 months (JavaScript), showcasing strong problem-solving skills and consistency.