Sushanth Rangu

Software Engineer | Web + Backend (React, Python, APIs) | MS CS '25

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Software Engineer with **2+ years** shipping production features across **Java services**, **REST APIs**, and data-backed web applications. Strong foundation in **OOP, data structures/algorithms, and design patterns**, with hands-on experience improving **performance, reliability, and debuggability** through logs/tracing and disciplined root-cause analysis. Comfortable delivering in **Agile** teams using **Git, CI/CD, Docker, Linux**, and cloud fundamentals (**AWS**), owning features from design to deployment.

PROFESSIONAL EXPERIENCE

Software Engineer at UNC Charlotte Fleet Services, USA   Jan 2024 – May 2025
- Shipped telemetry dashboard features by partnering with product/design and iterating fast.
- Implemented and integrated **REST APIs** (Java/Node) to support reporting workflows.
- Diagnosed production issues via logs/network traces; delivered fixes and prevented recurrences.
- Improved UI performance by optimizing renders, state updates, and client bottlenecks.
- Deployed Dockerized services via CI/CD in Linux environments; supported stable releases.

Graduate Teaching Assistant —UNC Charlotte, USA   Sep 2023 – Dec 2023
- Mentored teams building React apps, emphasizing clean components and debugging.
- Taught REST API integration, SQL queries, and frontend-backend coordination practices.
- Reviewed code and tests, giving actionable feedback during iterative sprints.

Software Engineer at Accenture, IND   Sep 2021 – Aug 2023
Project: Kellogg's – Enterprise Workflow Modernization
- Built and maintained **Java services** supporting enterprise workflow systems end-to-end.
- Reduced API latency 30% by optimizing **SQL/JDBC** access paths and query execution.
- Investigated QA/production issues using logs/traces; reproduced defects and shipped fixes.
- Participated in code reviews and test validation; delivered controlled rollouts via CI/CD + Git.

TECHNICAL PROJECTS

AI-Powered Q&A Chatbot (Grok API + LangChain)
- Built Python async services for retrieval, embeddings, and vector search.
- Designed API workflows for query handling and performance-focused data access.

Event Management Website (Full-Stack JS Project)
- Built React UI with JavaScript, HTML/CSS for event management workflows.
- Integrated Node.js REST APIs with MongoDB; improved usability via iterations.

CurryExpress – Scalable Ordering & Delivery System
- Developed Go services handling concurrent routing and reliable request processing.
- Prototyped React flows with Vite to validate requirements quickly early.

EDUCATION

University of North Carolina at Charlotte	Charlotte, USA
Masters of Science in **Computer Science - GPA: 3.8**	Aug 2023 – May 2025
Gokaraju Rangaraju Institute of Engineering and Technology	Hyderabad, India
Bachelor of Technology in Information Technology	Jul 2018 – Jun 2022

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), Java, TypeScript, SQL
- **Web:** React, HTML5, CSS3, component-based UI development
- **APIs:** RESTful API design/consumption, JSON, service integration (microservices basics)
- **Databases:** PostgreSQL, MySQL, MongoDB; SQL queries/joins; query optimization; JDBC
- **Cloud:** AWS (Cloud Practitioner)
- **DevOps/Automation:** Git, Linux/UNIX, Docker, CI/CD (GitHub Actions, Jenkins); **bash (basic)**
- **Debugging:** Chrome DevTools, log tracing, defect reproduction, basic profiling
- **Practices:** Agile/Scrum, code reviews, testing fundamentals

ACHIEVEMENTS and CERTIFICATIONS

- AWS Certified Cloud Practitioner (2024) | Pursuing Google Cloud Associate Engineer
- Solved 300 + LeetCode problems (Top 15 %), demonstrating algorithmic mastery.
- Certificate of Excellence – Accenture Technology Analyst Challenge (Enterprise Architecture).