Anoushika Vennamaneni

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Full-Stack Engineer with **2+ years** of experience building scalable back-end services and responsive front-end applications. Skilled in Python, Java, React, Node.js, SQL, NoSQL and cloud-native development, with a strong focus on clean architecture, API design, performance, and reliable service delivery.

Skills

Languages: Java, Python, C++, JavaScript, TypeScript, Go, C#.
Databases: PostgreSQL, MongoDB, NoSQL, Cassandra, DynamoDB.
Frameworks & Tools: Spring Boot, FastAPI, REST APIs, Docker, Kubernetes, React, Node.js, Git, CI/CD, AWS, Azure, Agile Development, Version Control

Work Experience

Youngstown State University, Ohio, USA   Jan 2024 – May 2025
Graduate Assistant

- Built React-based user interfaces with FastAPI backends to support operational workflows for 60+ users.
- Designed and optimized SQL and NoSQL queries and indexes, reducing application response latency by 60%.
- Implemented modular service logic and async data handling, improving document retrieval accuracy by ~25%.
- Applied Git-based version control, CI pipelines, and containerized deployments, improving release stability by 40%.
- **Environment**: Java, Python, React, FastAPI, REST APIs, SQL, Docker, Kubernetes, Git, AWS.

Capgemini, Hyderabad, India   Dec 2022 – Dec 2023
Software Engineer

- Built Java and Spring Boot services with React, translating business requirements into scalable features used by 30% more users.
- Developed and debugged REST APIs using object-oriented design, improving system throughput by 40%.
- Implemented asynchronous processing with Kafka and MongoDB, reducing end-to-end pipeline delays by 22%.
- Followed Agile practices and CI/CD workflows with Docker and Kubernetes, accelerating releases by 20%.
- **Environment**: Java, Spring Boot, React, REST APIs, Kafka, MongoDB, Docker, Kubernetes, Git, CI/CD, AWS.

Amdocs, Noida, India   Mar 2022 – June 2022
Software Engineer Intern

- Built Java and Python backend services with React UIs, improving application responsiveness by 22%.
- Debugged REST APIs and applied structured problem-solving, improving service reliability by 18%.
- Optimized PostgreSQL queries and schemas, reducing data-related defects impacting users by 15%.
- Used Docker, Jenkins, and Git for builds and releases, improving delivery speed by 40%.
- **Environment**: Java, Python, React, REST APIs, PostgreSQL, Docker, Jenkins, Git, Kubernetes.

Education

Youngstown State University, OH, USA   Jan 2024 - Dec 2025
Master's in Computer Science   *CGPA: 4/4*
Relevant Coursework: Data Structures & Algorithms, Advanced Databases, Cloud Computing, Software Engineering, Data Science & Machine Learning, Operating Systems.

Vignan's Institute of Management and Technology For Women, India   2019 - 2023
Bachelor of Technology - ECE   *CGPA: 3.8/4*

Academic Projects

- **TaskFlow – Full-Stack Workflow Management System**: Developed React UIs and Nest.js APIs with Redis and Kafka to handle concurrent, event-driven workflows. Applied modular design and async processing patterns, improving task responsiveness by 25%. Built CI/CD pipelines with Docker and Kubernetes, maintaining stable deployments and 99% uptime.
- **FinTrack – Growth & Insights Platform**: Built GraphQL dashboards with React and Redis to visualize analytics and business performance data. Developed Node.js services with Postgres to support scalable ETL-style data pipelines. Optimized query logic and caching strategies, improving decision workflows by 30%.
- **AI-Powered C++ Code Reviewer**: Developed Python and C++ analysis pipelines to evaluate large-scale codebases automatically. Implemented algorithmic scoring and validation logic, achieving 92% defect detection accuracy. Built a React-based interface to surface insights, reducing manual code review time by 40%.

Certifications & Awards

- Certified AWS Cloud Practitioner
- Certified AWS Developer – Associate
- **Badge for Strategic Thinking (Capgemini)**: Awarded by project leads for building scalable solutions under tight timelines using solid design principles.
- **Team Collaboration Award**: Recognized at university showcase for effective communication and teamwork during technical project presentations.