



# 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:** Python, Java, C++, C#, Go, JavaScript, TypeScript.

**Databases:** PostgreSQL, NoSQL, MongoDB, Cassandra, DynamoDB, Vector DBs (Pinecone).

**Frameworks & Cloud:** FastAPI, Flask, Django, Spring Boot, REST APIs, GraphQL, Docker, Kubernetes, React, Node.js, CI/CD, Git, Kafka, Redis, AWS, Azure, Microservices, Backend Architecture, Frontend Architecture, Scalable Service Design, API Performance Optimization, Automated Testing, Agile Development

## Work Experience

### Youngstown State University, Ohio, USA

Jan 2024 - May 2025

#### Graduate Assistant

- Built React and FastAPI tools for internal workflows, improving data clarity and usability for 60+ users.
- Created SQL and NoSQL indexes for analytics queries, reducing API response latency by 60%.
- Integrated LLM features and vector search into Python services, improving semantic retrieval accuracy by 25%.
- Improved cloud deployments using Docker, Kubernetes, and Git, increasing release stability by 40%.
- Environment:** Python, React, FastAPI, REST APIs, SQL, NoSQL, Docker, Kubernetes, Git, AWS.

### Capgemini, Hyderabad, India

Dec 2022 – Dec 2023

#### Software Engineer

- Built Java and Spring Boot services with React, improving workflow automation and usability by 30%.
- Developed and debugged REST APIs with Redis caching, improving throughput and reliability by 40%.
- Integrated Kafka messaging with MongoDB for async processing, reducing pipeline delays by 22%.
- Improved CI/CD pipelines and containerized services with Docker and Kubernetes, accelerating releases by 20%.
- Environment:** Java, React, Spring Boot, REST APIs, Kafka, Redis, Kubernetes, Docker, CI/CD, AWS, MongoDB.

### Amdocs, Noida, India

Mar 2022 – June 2022

#### Software Engineer Intern

- Built Python backend services and React UIs for internal tools, improving application responsiveness by 22%.
- Developed and troubleshooted REST APIs using FastAPI and Flask, improving service reliability by 18%.
- Enhanced SQL workflows with PostgreSQL, reducing data-related defects impacting users by 15%.
- Containerized services with Docker and supported CI builds using Jenkins, accelerating delivery speed by 40%.
- Environment:** Python, React, FastAPI, Flask, REST APIs, PostgreSQL, Docker, Jenkins, Kubernetes, Azure, Git.

## Education

### Youngstown State University, OH, USA

Jan 2024 - Dec 2025

**CGPA: 4/4**

Master's in Computer Science

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

**CGPA: 3.8/4**

Bachelor of Technology - ECE

## Academic Projects

- TaskFlow – Full-Stack Workflow Management System:** Developed a React-based UI and Nest.js APIs with Redis and Kafka to support real-time workflow processing, improving task responsiveness by 25%. Implemented CI/CD pipelines using Docker and Kubernetes to automate builds and deployments, maintaining reliable releases and 99% uptime.
- FinTrack – Growth & Insights Platform:** Built GraphQL dashboards with React and Redis caching to surface insights and improve decision workflows by 30%. Developed Node.js microservices with Postgres to support scalable, secure, and event-driven data pipelines.
- AI-Powered C++ Code Reviewer:** Built Python and C++ static analysis services with LLM-based scoring to identify code defects and quality issues, achieving 92% accuracy across reviews. Developed a React interface to present review insights, reducing manual review time and improving debugging clarity 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.