

Gautama Shastry Bulusu Venkata

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SUMMARY

Full-stack Software Engineer with academic experience building production-ready cloud services. 200+ LeetCode solutions, MS CS (GPA 3.95) at GMU, focused on performant, secure, and AI-enabled systems.

EXPERIENCE

Software Engineer Intern

Jan 2023 – June 2023

Backflip

Hyderabad, India

- Developed and optimized scalable web interfaces using React.js and Redux, improving app scalability and increasing user engagement by 20% through a modular architecture.
- Enhanced application performance by optimizing React component lifecycle, reducing unnecessary re-renders by 40%, and improving page load speed by 10%.
- Authored and maintained clear, structured documentation on Confluence, reducing onboarding time for new developers by 25% and streamlining cross-team collaboration.
- Improved state management efficiency, ensuring seamless data flow and reducing API call latency, resulting in a 15% faster front-end response time.

PROJECTS

Student Survey Application | *MySQL, SpringBoot, Docker, Kubernetes, Jenkins*

March 2025 - May 2025

- Designed a Spring Boot REST API for a 13-field **Survey** entity with five CRUD endpoints using Spring Data JPA and Bean Validation (`@NotBlank`, `@Email`, `@NotNull`); verified all routes in Postman and processed 60+ live submissions with zero validation errors.
- Provisioned an Amazon RDS MySQL 8 database and tuned `HikariCP` (`max-pool-size 20`, `min-idle 5`) for consistent throughput and low latency.
- Containerized the service in an `openjdk:23-jdk-slim` Docker image and pushed version-tagged builds to Docker Hub via GitHub Actions.
- Deployed a three-replica Kubernetes **Deployment** on AWS EC2 nodes using Rancher, exposing the application through a NodePort service and sustaining 99.9% uptime.
- Created a Git-triggered Jenkins pipeline (Maven tests, build and push Docker image, and `kubectl rollout`) that rebuilds and redeploys in about 5 minutes, maintaining zero-downtime releases under Git/GitHub version control.

Taskify-A task management Web app | *Vite + React.js, Express.js, Node.js, MongoDB*

Jan 2025-Feb 2025

- Developed a full-stack task management application using React.js, Node.js, MongoDB, allowing users to efficiently create, update, delete, and manage tasks. Included comprehensive features such as profile updates and deletions.
- Integrated JWT-based authentication with issues by Express.js, and user profile management bcrypt password hashing, enhancing security and reducing login-related 25%.
- Designed and developed 20+ real-time filtering, sorting, and search functionalities, enhancing data accessibility and reducing search response time by 15%.

Resume Analyzer | *React.js, SpringBoot, Python, Flask, PostgreSQL*

Feb 2025-May 2025

- Built a React application that lets recruiters upload resumes, Job Descriptions, view AI generated fit scores; implemented protected routes and JWT handling with Axios, cutting manual screening clicks by 70 percent in user tests.
- Developed a Spring Boot REST API secured by Spring Security roles and JWT; exposed endpoints for resume upload, job description upload, and score retrieval, persisting all data in PostgreSQL via Spring Data JPA.
- Created a Python microservice that uses `spacy` to extract entities and assigned fit scores with 87 percent validation accuracy and sub 1.5 second inference latency.
- Orchestrated cross-service communication: the Java API calls the AI microservice, stores scores and extracted skills in PostgreSQL, and returns aggregated results to the React UI; processed more than 50 candidate resumes during a two-week pilot with zero API errors.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks and Databases: React.js, Node.js, Express.js, SpringBoot, MongoDB, PostgreSQL, MySQL

Machine Learning & AI: pandas, NumPy, Matplotlib, TensorFlow, Open CV, Keras

DevOps & Data Structures: DSA, AWS, Docker, OOP, Jenkins, Kubernetes, Rancher, Git, Operating Systems, Linux

EDUCATION

George Mason University

Fairfax, VA

Master of Science in Computer Science - 3.95/4

Jan. 2024 – December 2025