Gautama Shastry Bulusu Venkata

+1 571-653-0056 | gautamashastry@gmail.com | https://linkedin.com/in/satya2603/ | https://github.com/GautamaShastry | Leetcode | Portfolio

SUMMARY

MSCS student (GPA 3.85) who builds and runs cloud microservices on AWS. Skilled in Java, Python, and C++, I keep systems simple, fast, and low-cost. Solved 200+ LeetCode problems, strengthening my algorithms and data-structure skills. I thrive in quick Agile teams that put customers first and measure success by real results.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript/TypeScript, HTML/CSS, C, C++
Web Development: React.js, Node.js, Express.js, SpringBoot, MongoDB, PostgreSQL, MySQL, HikariCP, Hibernate/JPA, Redux, REST APIs, Microservices, Software Development
Machine Learning & AI: pandas, NumPy, spaCy, Matplotlib, TensorFlow, Open CV, Keras, Natural Language Processing, Deep Learning, Machine Learning, Retrieval Augmented Generation, Large Language Models, LLM Fine-tuning
DevOps & Data Structures: Data Structure and Algorithms, AWS Cloud Services(EC2, S3, CloudFront, Route 53, AWS RDS, Lambda, DynamoDB, SQS, SNS, CloudWatch, IAM), Docker, OOP, Jenkins, Kubernetes, Rancher, Git, Operating Systems, Linux, Object Oriented Programming, GitHub, Distributed Systems, Object Oriented Design
Methodologies: Agile/Scrum, CI/CD

CERTIFICATIONS

- AWS Cloud Practitioner CLF-C02

EXPERIENCE

Software Engineer Intern   Jan 2023 – June 2023
Backflipt   *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 | *SpringBoot, Docker, Kubernetes, Jenkins, AWS EC2, AWS RDS, Rancher*   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 into an OpenJDK 23-slim image** with an optimized single-stage Dockerfile, **pushed version-tagged images to DockerHub** from the CLI, and **deployed a 3-replica Kubernetes Deployment on 3 EC2 nodes managed by Rancher, exposed via a NodePort Service—maintained 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, Docker*   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, Render, Vercel, Docker*   Feb 2025-May 2025
- Built a React application that lets recruiters upload resumes, Job Descriptions, and 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.
- Deployed the Spring Boot backend and Flask ML service on Render and the React frontend on Vercel, enabling auto-scaling to zero, sustaining 99.95% uptime, and keeping hosting spend under US $50/month.

Portfolio | *React.js, Tailwind CSS, AWS S3, AWS CloudFront, AWS Route 53, AWS ACM*   Jan 2025 - July 2025
- **Frontend Development & UI:** Engineered a mobile-first SPA in **React + Tailwind** that hits > **90 Lighthouse PageSpeed Insights in Performance, Accessibility, Best Practices, and SEO** on both mobile and desktop. Integrated Framer Motion micro-interactions like animated cards, section reveals, hover effects thereby **boosting user engagement by 15%**
- **Cloud DevOps:** Architected a latency-optimized stack—**Amazon S3 for static hosting, CloudFront CDN for Content Delivery, and Route 53 for DNS** health-check fail-over that now serves gautamportfolio.com at an **average TTFB of 193 ms and earns an 89% SpeedVitals performance(Grade A)**. Locked down the origin with OAI, enforced SSL/TLS via ACM, enabled HSTS preload, and mandated HTTPS redirects, resulting in **zero high-severity findings** across recurring AWS Security Hub scans.

EDUCATION

George Mason University   Fairfax, VA
Master of Science in Computer Science - 3.85/4   *Jan. 2024 – December 2025*

Andhra University   Visakhapatnam, AP, India
Bachelor of Technology in Computer Science - 8.15/10   *Aug. 2019 – May 2023*