

# Gautama Shastry Bulusu Venkata

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## SUMMARY

MSCS candidate (GPA 3.85) with strong experience building frontend applications in React.js, Redux, HTML5, CSS3, and TypeScript that deliver scalable, performant, and user-friendly experiences. Skilled in optimizing UI rendering, enhancing usability, and collaborating with cross-functional teams to design and ship impactful features. Complementary backend expertise with Node.js, Spring Boot, and Flask, enabling full-stack problem solving. Passionate about turning complex business requirements into intuitive, high-quality user interfaces.

## EDUCATION

### George Mason University

Master of Science in Computer Science - 3.85/4

Fairfax, VA

Jan. 2024 – December 2025

### Andhra University

Bachelor of Technology in Computer Science - 8.15/10

Visakhapatnam, AP, India

Aug. 2019 – May 2023

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript/TypeScript, HTML/CSS, C, C++

**Backend & Systems:** Spring Boot, Node.js, Express.js, Django, Flask, REST APIs, Microservices, Distributed Systems, Systems Programming (file I/O, multithreading, memory management, socket programming), Object-Oriented Design, Operating Systems, Linux

**Frontend & Web:** React.js, Redux, Vite, Tailwind CSS, HTML5, CSS3

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, Route 53, CloudFront, IAM, SQS, SNS, CloudWatch), Docker, Kubernetes, Jenkins, Rancher, Git, GitHub

**Databases:** PostgreSQL, MySQL, MongoDB, HikariCP, JPA/Hibernate

**AI & ML:** Python (spaCy, pandas, NumPy, TensorFlow, Keras), Natural Language Processing, Retrieval-Augmented Generation (RAG), LLM fine-tuning, Large Language Models, Machine Learning, Deep Learning

**Tools & IDE:** Visual Studio Code, IntelliJ IDEA, Eclipse, Postman, Maven, Confluence, Jupyter Notebook

**Methodologies:** CI/CD, Agile/Scrum, Version Control(Git)

## EXPERIENCE

### Associate Software Engineer

Jan 2023 – December 2023

Backfltp

Hyderabad, India

- Faced a sluggish, hard-to-scale UI, so I **redesigned the front end into modular React components with Redux** by refactoring shared logic and state boundaries, **boosting user engagement by 20%** and improving maintainability.
- Hit rendering bottlenecks under load, so I **optimized the render path** by introducing React hooks, memoization, and granular component splits, **cutting re-render overhead by 40%** and **improving page load by 10%**.
- Saw latency from redundant network calls, so I **streamlined client-server data flow** by redesigning Redux state, normalizing entities, caching, and debouncing requests, **reducing response latency by 15%**.
- Onboarding was slow due to tribal knowledge, so I **documented UI/UX workflows and standards in Confluence** by mapping flows, patterns, and examples, **shortening new-dev ramp-up by 25%** and smoothing cross-team handoffs.

## PROJECTS

### Student Survey Application | *SpringBoot, Docker, Kubernetes, Jenkins, AWS, Rancher*

March 2025 - May 2025

- We needed a production-ready survey backend with strong data integrity, so I built a Spring Boot REST API using Spring Data JPA and strict field validation (@NotNull, @NotBlank, @Email), which blocked bad inputs early and kept the dataset clean during the pilot.
- To keep reads/writes fast under concurrent load, I provisioned Amazon RDS MySQL 8 and tuned HikariCP (maxPool=20, minIdle=5) and connection settings, which stabilized throughput and kept latency low during traffic spikes.
- High availability was a must, so I containerized the service into a slim OpenJDK 23 image, published version-tagged images, and deployed a 3-replica Kubernetes workload on EC2 via Rancher (NodePort exposure), which **sustained 99.9% uptime**.
- Release cycles were manual and slow, so I wired a Git-triggered Jenkins pipeline (Maven build → Docker image → K8s rollout with health checks), which delivered **zero-downtime deployments in under 5 minutes end-to-end**.
- Before shipping, we needed confidence in behavior, so I wrote Postman suites and exercised live paths after rollout, which **processed 10+ production submissions with zero validation or runtime errors**.

**Taskify-A task management Web app** | *Vite + React.js, Express.js, Node.js, MongoDB, Docker* Jan 2025-Feb 2025

- We needed secure, role-based task workflows, so I built a full-stack React + Express + MongoDB app with guarded routes and CRUD flows, which gave teams a clean way to manage tasks end-to-end.
- Sign-ins were flaky and hard to trust, so I implemented **JWT auth** with **bcrypt hashing** and tightened route protection, which **reduced login issues by 25%** and solidified access control.
- Users couldn't find tasks quickly, so I added real-time filtering, search, and sorting (20+ combos) and tuned MongoDB queries with the right indexes, which **cut search time by 15%** and made task discovery feel instant.
- Dev environments kept drifting, so I containerized the stack with Docker and a simple compose file, which made local setup predictable and cross-platform deploys painless.
- Concurrent edits caused UI hiccups, so I designed clear REST endpoints and centralized state with Redux, which kept client-server interactions smooth and UI updates consistent under load.

**Resume Analyzer** | *React.js, SpringBoot, Python, Flask, PostgreSQL, Render, Vercel, Docker* Feb 2025-May 2025

- Recruiters needed faster screening, so I built a React app that lets them upload resumes/JDs and view AI fit scores behind JWT-protected routes, which **cut manual review time by 70%**.
- Secure data flow was a must, so I designed Spring Boot REST APIs with Spring Security (JWT) and Spring Data JPA on PostgreSQL, which **made uploads/retrieval reliable and audit-friendly**.
- Accuracy and speed mattered, so I shipped a Flask microservice using spaCy for NER and a scoring pipeline, which **hit 87% accuracy with less than 1.5s latency** on test runs.
- Cross-service reliability was a risk, so I engineered the integration between the Spring Boot (Java) API and the Flask (Python) microservice with typed contracts, timeouts, and retry logic, persisting scores and extracted skills in PostgreSQL, which **processed 15+ resumes** in two weeks with **zero API errors**.
- I needed to scale without blowing the budget, so I deployed backend + AI on Render and the frontend on Vercel with autoscaling and health checks, which kept **uptime at 99.95% for less than \$50/month**.

**Portfolio** | *React.js, Tailwind CSS, AWS S3, AWS CloudFront, AWS Route 53, AWS ACM* Jan 2025 - July 2025

- I needed a fast, clean way to showcase my work, so I built a mobile-first single-page site in React with Tailwind and light, reusable components, which scored **90+ across all Lighthouse categories**.
- Global performance mattered, so I served static assets from **S3 behind CloudFront**, tuned cache/TTL and compression, and optimized images, which **delivered a 193ms average TTFB** and an **89% SpeedVitals grade (A)**.
- Security was non-negotiable, so I **enforced HTTPS via ACM**, enabled **HSTS preload**, and locked S3 behind a CloudFront origin policy (no direct bucket access), which passed audits with **zero critical Security Hub findings**.
- Uptime and simplicity were goals, so I kept it **fully serverless** with Route 53 health checks and CloudFront monitoring, which sustained **99.95% uptime** without manual ops.
- Engagement needed a lift, so I added subtle motion (section reveals, card transitions, hover effects) with Framer Motion, which **increased user engagement by 15%**.

## CERTIFICATIONS

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- AWS Cloud Practitioner CLF-C02
- Deep Learning Specialization(Deep Learning.ai)