Jyoshna Koppala

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Education

State University of New York at Buffalo — Buffalo, NY
Masters in Computer Science and Engineering — *Jan. 2024 – May 2025*

Dayananda Sagar College of Engineering — Bangalore, KA, IN
Bachelor of Engineering in Computer Science — *Aug. 2019 – July 2023*

Technical Skills

Languages: Java, Python, C, SQL (Postgres), MySQL, JavaScript, TypeScript HTML/CSS
Frameworks and Tools: PyTorch, Flask, ReactJS, Node.js, OpenCV, Docker, Git, JUnit, Mockito, AWS, Django, Maven, Postman, AWS (EC2, S3, Lambda), Firebase, Selenium
Others: Microservices, REST APIs, Object Oriented Programming, Software Development Life cycle, OS Storage Systems, Resource Management, Kernel interaction (basic understanding), version control, Database design and management
Soft Skills: Innovation-Oriented, Independent Judgement, Team Player, Adaptability

Experience

Amazon — Bangalore, KA, IN
Quality Assurance Intern — *Jan. 2023 – June 2023*

- Developed an internal testing tool using Java Spring Boot to automate the suspension of expired accounts, reducing manual effort by 90%. Designed an event-driven workflow using native AWS services, and authored unit and integration tests that improved test coverage and build reliability, resulting in stable CI/CD pipeline executions.
- Led end-to-end QA efforts for Amazon's advertising platform across 3 Tier-1 projects, including sprint planning, test design, automation, and execution. Identified and resolved critical launch blockers, preventing customer-facing issues and enabling on-time launches across 20+ marketplaces. Collaborated with 4+ cross-functional teams, drove defect triage and RCA, and ensured 100% regression test coverage using tools like TestNG, Postman, and internal test frameworks.
- Identified high-impact blockers and mitigated launch risks by independently designing 2 custom test strategies, increasing test coverage by 30% using Public APIs and internally built tools.

Brane Enterprises — Hyderabad, TG, IN
Quality Assurance Engineer Intern — *Oct. 2021 – June 2022*

- Collaborated with developers and product managers to design effective test cases, reducing bug rates by 30% across 15+ products. Performed regression, functional, and performance testing, ensuring reliable UAT and sprint delivery.
- Contributed to 25+ REST APIs using Java and Spring Boot with full-stack test coverage. Automated critical API and UI scenarios using Postman, Cypress, and Selenium, reducing production issues by 50% and manual effort by 40%.
- Created detailed test plans, tracked defects in Jira, and improved resolution speed by 35% through clear root cause analysis. Participated in Agile ceremonies, enhancing sprint planning accuracy and risk communication.

Projects

Task Manangement System | *Java, Spring Boot, React, Maven, MySQL* — Nov 2024 – Dec 2024

- Developed a microservices-based task management system using Spring Boot, MySQL, and Maven, enabling 100% coverage of task lifecycle operations through 8+ modular RESTful APIs.
- Built a secure, role-based React frontend with Redux Toolkit and Material UI, streamlining workflows for 100+ users across 5 departments with 50% faster task tracking.
- Embedded Eureka and OpenFeign for dynamic service discovery and inter-service communication, achieving 99.9% uptime and horizontal scalability across 10+ microservices.

AI-Powered Job Interview Platform | *Next.js, Firebase, Tailwind CSS, Vapi AI* — Jan 2025 – Feb 2025

- Built a full-stack interview preparation platform that simulates real-time voice-based interviews using Vapi AI voice agents and Google Gemini for dynamic question generation and intelligent feedback analysis.
- Improved backend efficiency by reducing API latency by 40%, leveraging optimized Firestore queries, structured server actions in Next.js, and batched reads/writes to minimize redundant data operations.
- Delivered a highly responsive and accessible user interface with 95%+ Lighthouse performance scores, using Tailwind CSS and shadcn/ui components to ensure fast loading, reusable layouts, and seamless experience across all devices.

American Sign Language Detection | *PyTorch, Python, OpenCV, Flask* — June 2024 – July 2024

- Trained and fine-tuned deep learning models (GoogLeNet, ResNet, DenseNet, etc.) on the ASL dataset, achieving 98% accuracy by applying various model tuning techniques to enhance performance and generalization.
- Assembled a real-time ASL sign detection web app using Flask, Streamlit, and OpenCV, and implemented custom data augmentation techniques (e.g., motion blur, hand region masking) to simulate real-world noise, improving model robustness by 12% on unseen gestures.