Jyoshna Koppala

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SUMMARY

Software Engineer and MS Computer Science graduate skilled in crafting scalable, cloud-native applications with Java, Spring Boot, and React. Engineered secure microservices, integrated real-time dashboards, and automated CI/CD workflows to power responsive, end-to-end platforms. Demonstrated strong ownership while contributing to distributed systems, QA automation, and backend infrastructure with a deep focus on customer obsession in agile, production-focused environments.

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

Programming: Java, Python, C, JavaScript, TypeScript, HTML/CSS, SQL, MySQL
Web & Frontend: React.js, Next.js, Node.js, .NET, Angular js, Redux, Tailwind CSS, REST APIs, GraphQL, Postman
Tools & DevOps: Spring Boot, Spring cloud, Maven, Git, GitHub, Docker, Kubernetes, CI/CD, AWS, PostgreSQL, Firestore
CS Fundamentals: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Microservices

EXPERIENCE

Amazon — Bangalore, KA, IN
Software 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
Software Engineer Intern — *Oct. 2021 – June 2022*
- Led the development of HRMS modules, leveraging Entity Query Language for filtering and Apache Superset for dashboards, driving a 20% increase in employee engagement through improved performance tracking and timely alerts.
- Designed and implemented hierarchical approval workflows using Java Spring Boot, reducing approval time by 30%. Built and tested microservices with Spring MVC, REST APIs, and applied OOP principles including inheritance, polymorphism, and multithreading. Automated deployments using AWS and Postman, improving reliability.
- Resolved over 20 frontend bugs using AngularJS and JavaScript, significantly enhancing UI responsiveness and delivering a smoother user experience across internal web applications.

PROJECTS

Task Manangement System | *Java, Spring Boot, React, Maven, MySQL* — Jan 2025 – Feb 2025
- Developed a full-stack microservices-based task management platform serving 100+ users, using Spring Boot for user auth, task tracking, and submission services with RESTful APIs and OpenFeign for inter-service communication.
- Integrated Spring Cloud Gateway and Eureka Server to manage 10+ microservices with 99.9% uptime, and implemented secure JWT authentication with MySQL, ensuring reliable and scalable data storage
- Designed a responsive, role-based React single-page app using Redux Toolkit and Material UI, reducing task tracking time by 50% and enabling real-time dashboards for improved workflow visibility and user productivity.

Face Recognition Attendance System | *Python, Machine Learning, PyQt* — Nov 2024 – Dec 2024
- Created an application that uses facial recognition technology to automatically verify individuals and mark attendance.
- Utilized OpenCV-Python, NumPy, and face-recognition libraries for precise facial detection and image processing.
- Integrated the system with a database for accurate recording and retrieval of attendance information.

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 to simulate real-world noise, improving model robustness by 12% on unseen gestures.

CERTIFICATIONS

AWS Certified Developer – Associate
Architecting with Google Compute Engine Specialization – Coursera
Python Data Structures – Coursera