

Jyoshna Koppala

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WORK EXPERIENCE

Conceptive Consulting

Hyderabad, TG, IN

Software Engineer

July. 2023 – Dec 2023

- Developed 15+ Spring Boot APIs for catalog onboarding and approvals, supporting 50,000+ product entries.
- Built 20+ modular and reusable React components using Module Federation, reducing frontend duplication by 30%.
- Designed scalable and efficient PostgreSQL schemas for 100+ product attributes, improving data accuracy by 25%.
- Integrated secure Keycloak authentication for role-based access, eliminating unauthorized access issues entirely.
- Implemented attribute mapping workflows, reducing catalog onboarding time by 40% and support tickets by 25%.
- Enabled supplier self-service catalog updates, reducing manual data entry and improving data consistency by 30%.

Amazon

Bangalore, KA, IN

Quality Assurance Engineer

Jan. 2023 – June 2023

- Developed a testing tool with Java Spring Boot to auto-suspend 300+ expired accounts, reducing manual effort by 90%.
- Designed an event-driven workflow with AWS, increasing CI/CD success rate by 35% and reducing rollback incidents.
- Authored unit and integration tests that boosted test coverage and build reliability, ensuring stable pipeline executions.
- Led QA for 3 Tier 1 Amazon advertising projects, driving strategy and execution, resulting in 30% faster release cycles.
- Resolved critical launch blockers, enabling on-time releases across 20+ marketplaces and preventing customer issues.
- Collaborated with 4+ cross-functional teams to drive defect triage, RCA, and maintain 100% regression test coverage.
- Implemented automated testing across workflows, reducing manual effort by 40% and boosting defect detection by 25%.

Brane Enterprises

Hyderabad, TG, IN

Software Engineer

Oct. 2021 – June 2022

- Led development of HRMS modules using EQL and Superset, increasing employee engagement by 20% through alerts.
- Designed hierarchical approval workflows in Spring Boot, reducing request approval time by 30% across departments.
- Built and tested microservices with Spring MVC and REST APIs, leveraging OOP and multithreading for performance.
- Automated deployments using AWS and Postman, improving reliability and reducing deployment errors by 35%.
- Resolved 20+ frontend bugs using AngularJS and JavaScript, improving UI responsiveness and user experience.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, Bash

Web Development: Spring Boot, Spring MVC, Maven, React.js, Next.js, NestJS, HTML, CSS, Bootstrap, Langchain

Data Engineering: MySQL, PostgreSQL, Hadoop, Apache Spark

DevOps & Cloud: Git, GitHub, Docker, Postman, AWS

Other Tools & Concepts: Agile, Jira, RESTful APIs, Microservices Architecture, System Design, Distributed Systems, Operating Systems, Data Structures & Algorithms

PROJECTS

Task Manangement System | Java, Spring Boot, React, Maven, MySQL

Jan 2025 – Feb 2025

- Built a microservices-based task management system with Java and Spring Boot boosting task tracking by 40%.
- Developed backend services for user authentication, task creation, and workflows using Spring Boot and REST APIs.
- Integrated Spring Cloud Gateway and Eureka Server to manage 10+ microservices, achieving 99.9% uptime.
- Implemented JWT-based authentication and role-based access control, ensuring scalable, reliable data access in MySQL.
- Designed a responsive React frontend with Redux Toolkit and Material UI, reducing task tracking time by 50%.

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.

Face Recognition Attendance System | Python, Machine Learning, PyQt

Nov 2022 – Dec 2023

- 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.

EDUCATION

State University of New York at Buffalo

Buffalo, NY

Masters in Computer Science and Engineering

Dayananda Sagar College of Engineering

Bangalore, KA, IN

Bachelor of Engineering in Computer Science

CERTIFICATIONS

AWS Certified Developer – Associate

Architecting with Google Compute Engine Specialization – Coursera

Python Data Structures – Coursera