

EDUKULLA CHARAN KUMAR

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WORK EXPERIENCE

HALO MUSIC PRODUCTIONS

Java Full Stack Developer, AI Chatbot

Hyderabad, TS

Nov 2023 – Dec 2024

- Developed and maintained a music licensing platform using Java Spring Boot, supporting 1K+ concurrent users.
- Implemented user authentication, payment integration, and music file streaming with AWS S3, Stripe, and JWT.
- Developed and integrated an AI chatbot for real-time customer support on the music licensing platform, leveraging NLP, cloud-based hosting and a custom dialogue flow to assist users with licensing inquiries and platform navigation.

PROJECTS

SHOPSAGE – FULL STACK E-COMMERCE PLATFORM (Spring Boot | React | MySQL | JWT | AWS)

Sep 2024

- Engineered a scalable e-commerce platform with customer/seller/admin portals and 50+ modular features by developing RESTful services and role workflows using Spring Boot, MySQL, React, and TypeScript.
- Reduced unauthorized access attempts by 90% by enforcing role-based authentication and protected routes using Spring Security + JWT.
- Accelerated page load time by 40% by optimizing UI rendering and state flow using React, Redux Toolkit, MUI, and Tailwind, while hosting product media on AWS S3 for high availability.
- Cut customer support workload by 60% by integrating a chatbot and automated email notifications using basic NLP flows + backend-triggered messaging.
- Enabled data-driven decisions for 100+ sellers/admins by delivering real-time analytics dashboards using SQL-backed reporting + React Charts.

MOTOR STAY – PARKING SPACE FINDER (React | Spring Boot | MySQL | Figma)

Jan 2024

- Delivered a production-grade parking MVP by converting Figma flows into a responsive React UI with reusable components and form validation, reducing UI rework and accelerating feature delivery.
- Reduced slot search time by 30% by implementing live availability updates and end-to-end booking (reserve → pay → confirm) using Spring Boot APIs + MySQL.
- Increased booking throughput to 50+ concurrent users by tuning queries (indexes, join optimization) and enforcing atomic reservations with transactional locking to prevent double-booking.
- Hardened platform security by implementing JWT + role-based access (Admin/User) with protected routes and API authorization filters, adding session integrity checks to mitigate token misuse.

SKILLS

Languages: Java, Python, SQL

Frameworks & Web: React, Spring Boot, Spring Security, REST APIs, HTML/CSS, FAST API

AI/ML: Applied ML, Generative AI (RAG, synthetic data), Agentic systems

Cloud: AWS (EC2, S3, Lambda, RDS, CloudWatch)

Databases: MySQL, Hibernate, Indexing, Query Optimization

Messaging & Caching: Kafka, Redis

Tools: Postman, Swagger (OpenAPI)

EDUCATION

UNIVERSITY OF CENTRAL FLORIDA

Aug 2024 – Present

Master of Science in Computer Science

GPA: 3.91

K L UNIVERSITY

Aug 2020 – Jun 2024

Bachelor of Engineering in Computer Science (Honors)

GPA: 9.33

CERTIFICATIONS

- AWS Certified Cloud Practitioner