

YASHWANTH SAI CHENNUPALLI

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Experience

Software Development Engineer I

Aug 2024 – Present

Byteridge

- Led backend development of a global **payroll monitoring and analytics platform** using **Spring Boot**, building APIs that aggregate payroll data from multiple **microservices** and databases (**PostgreSQL, Oracle, and OneData**) to deliver **region-wise and country-wise** insights on payroll status, headcount, payroll amounts, and processing issues for enterprise dashboards.
- Improved API response time by **40%** by parallelizing independent downstream service calls, adding **Redis caching** for frequently accessed country and static reference data, and implementing **database connection pooling** to minimize connection-establishment overhead and improve resource utilization.
- Designed and implemented a **Hub Management** module for global payroll operations, enabling creation of region-specific hubs with configurable payroll cycles (**monthly, bi-weekly, weekly**), manager assignment workflows, and role-based authorization controls to support geographically distributed payroll administration.
- **Spring Boot Microservice Modernization**: Re-architected a legacy **Java** backend into a scalable **Spring Boot microservice**, implementing a Controller-Service architecture and a robust transformation layer to standardize **SAP RFC** responses into strict **JSON** schemas, improving code maintainability and reducing frontend integration issues by **55%**.
- **Financial Analytics Dashboard Development**: Engineered a comprehensive admin dashboard using **Next.js**, delivering interactive visualizations (**line charts, bar charts, pie charts, tables, KPIs**) for financing, overdue, maturity, invoice, and exposure analytics, with dynamic multi-level filtering across **banks, buyers, suppliers, and product types**.

Software Development Engineer Intern

Sept 2023 – Nov 2023

Byteridge

- Built a **Scrum Planning Poker** application using **Next.js, TypeScript, and Tailwind CSS**, developing reusable and interactive components for planning and estimation workflows.
- Implemented **real-time collaboration** using **Socket.io**, enabling users to create and join planning rooms with **QR code and URL-based sharing**, reducing room setup time by **60%**.
- Developed **REST APIs** using **Java and Spring Boot**, implementing authentication and **role-based access control** while integrating **PostgreSQL** for persistent application data.

Projects

ManaAgent

Python, SQLite

- Built a local-first personal **AI** assistant with a custom **reason-act-observe** agent loop, pluggable cloud/local model providers, and multi-channel CLI, web dashboard, and Telegram gateways. Implemented gated retrieval over **semantic, episodic, and procedural** memory using **SQLite FTS5**, recency ranking, and periodic LLM-based consolidation; integrated calendar CRUD, web search, durable notes, Google Calendar OAuth, live tracing, and loop guardrails with deterministic pytest coverage.

SlimContext

Python, FastAPI

- Built a standalone retrieval-context optimization microservice for RAG systems, reducing context size by **60–70%** without additional LLM calls. Designed an **8-stage deterministic pipeline** leveraging SHA-256 deduplication, semantic clustering, representative selection, and **MMR reranking** to maximize information diversity while meeting token budgets, achieving **sub-15ms latency** on pre-embedded inputs.

Education

Jawaharlal Nehru Technological University

2020 – 2024

Bachelor of Technology, Computer Science and Engineering

Hyderabad, Telangana

Technical Skills

Languages: Java, JavaScript, Python.

Technologies/Frameworks: Spring Boot, Spring Security, ReactJS, NodeJS, ExpressJS, TypeScript, NextJS, AWS, Mongoose, Kafka, Microservices, LangGraph, LangChain, RESTful APIs..

Databases: PostgreSQL, Redis, MongoDB.

Platforms & Tools: Docker, Jenkins, Unix, Splunk, GitHub, Bitbucket, Vercel, Render, CI/CD Pipelines.

Achievements

- **Ranked 1st in MLH Hackathons (2×)** • **Organizer:** CodeDay Hyderabad 2.0 • **Winner:** TKREC Hackathon