CHILLA KOUSHIL KUMAR REDDY

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Summary

Backend-focused Software Developer at Ericsson with experience building Python-based backend services and AI-powered automation solutions. Hands-on experience with FastAPI, REST APIs, asynchronous processing, database integration, and LLM-powered systems. Experienced in developing backend applications involving real-time communication, background job processing, and cloud deployment. Strong foundation in data structures, algorithms, object-oriented programming, DBMS, and computer networks.

Professional Experience

Ericsson August 2026 – Present
Software Developer (Full-Time) *Previously Intern (5 months)*

- Develop Python-based backend services using FastAPI to automate telecom network optimization workflows, integrating Azure OpenAI and internal application components.
- Developed an LLM-powered code generation module that combines engineered prompts and context retrieval to generate task-specific optimization solutions.
- Integrated Retrieval-Augmented Generation (RAG) into backend workflows to retrieve relevant domain knowledge and provide contextual information for LLM-driven automation.
- Applied prompt engineering and LLM concepts to improve AI-powered engineering workflows and automate network optimization tasks.

Technical Skills

Languages: Python, Java, SQL
Backend Development: FastAPI, Node.js, Express.js, REST APIs
Backend Engineering: Asynchronous Processing, Background Job Processing, WebSockets, API Integration
Database & caching: PostgreSQL, MongoDB, Redis
Cloud & DevOps: AWS (EC2, S3, VPC, IAM, ECS, ECR, Lambda), Docker, Jenkins, Linux, Git, CI/CD
AI Engineering: LLM Integration, Retrieval-Augmented Generation (RAG), Prompt Engineering, AI Agents **Core Concepts**: Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks

Projects

Video Transcoding System GitHub

- Developed an asynchronous video transcoding pipeline using Node.js, BullMQ, Redis, and FFmpeg to process uploaded videos into multiple resolutions.
- Implemented background job processing to handle resource-intensive video transcoding independently of the upload request lifecycle.
- Integrated WebSockets to provide real-time transcoding progress and job status updates to clients.
- Generated HLS-compatible video outputs to support adaptive video streaming across different resolutions.
- Created a simple interface to upload videos and monitor transcoding status.

Vstream369 – Real-Time Video Streaming Platform GitHub

- Developed a full-stack video streaming application with real-time communication and synchronized playback capabilities.
- Implemented WebSocket-based communication using Socket.IO to support real-time interactions between connected users.
- Designed REST APIs and integrated PostgreSQL with Prisma ORM for persistent application data management.
- Integrated Redis for backend data and queue management, and deployed application components using AWS EC2 and Vercel.

AWS VPC-Based Full Stack Application Deployment GitHub

- Designed a multi-tier AWS deployment architecture using a custom VPC with public and private subnets distributed across availability zones.
- Configured EC2 instances, Bastion Host, security groups, and route tables to establish controlled network access and isolate application components.

Education

Vellore Institute of Technology Oct 2022 – May 2026
Bachelor of Technology in Computer Science *CGPA: 9.02*

Certifications & Extracurricular

Cisco Certified Networking Basics Certificate
AWS Cloud Foundations Certificate