# Eswar Dudi

Computer Science Student

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## SUMMARY

Computer Science undergraduate with strong foundations in data structures, algorithms, and software engineering. Hands-on experience in full-stack development, containerization, and mobile applications using Java, Go, Python, and Kotlin. Skilled in modern frameworks and cloud-native practices. Curious about AI, web technologies, and system internals, with a passion for building scalable, high-performance software and contributing to impactful engineering teams.

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering**
CVR College of Engineering, Hyderabad, Telangana
2023 – 2027 | CGPA: 8.31/10
**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Web Technologies, Software Engineering

## TECHNICAL SKILLS

**Programming Languages:** Java, Kotlin, Python, C, Go, JavaScript, TypeScript

**Frameworks & Libraries:** React, Node.js, Express.js, Flask, FastAPI, Next.js, Socket.IO, Jetpack Compose, TailwindCSS, ShadCN, Supabase

**Databases:** MongoDB, MySQL, SQLite, Firebase Realtime Database, Oracle Database, PostgreSQL

**Tools:** Git/GitHub, Linux, Docker, Postman, Selenium

## PROJECTS

### Guntainer – Secure Container Runtime in Go
Go, Linux Namespaces, UID/GID Remapping
**GitHub**
▸ Implemented process isolation using Linux namespaces with UID/GID remapping
▸ Automated lightweight Alpine root filesystem setup for containerized environments

### NexusChat – Real-Time P2P Chat Application
MERN Stack, Socket.IO, TailwindCSS
**GitHub | Live Demo**
▸ Built a real-time chat system using WebSockets (Socket.IO) with Express.js backend
▸ Designed and deployed responsive UI with production-ready architecture on Render

### SynapseLearn – AI-Powered Learning Planner
Next.js, TypeScript, Gemini API, PostgreSQL, Drizzle ORM, Clerk
**GitHub | Live Demo**
▸ Developed AI-driven task planner generating personalized learning paths
▸ Integrated Gemini API with scalable backend and analytics for progress tracking

### CalGist – Calendar Event Summarization
Next.js, Supabase, Google Calendar API, Gemini API
**GitHub | Live Demo**
▸ Integrated Google Calendar API with Gemini to auto-summarize events
▸ Implemented vector embeddings (`text-embedding-004`) for faster queries

### AlterTone – AI Text Tone Transformer
Next.js, TypeScript, Gemini API
**GitHub | Live Demo**
▸ Engineered app to transform text into 20+ tones using Gemini API
▸ Built SEO-optimized pages to maximize organic visibility