

Purushoth DL

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EDUCATION

- **Sri Venkateswara University College of Engineering** Tirupati, India
Bachelor of Engineering in Electronics and Communication (First Class with Distinction) Aug 2021 - May 2025

TECHNICAL EXPERIENCE

- **StackGuard — Full-Stack Engineer Intern** Jul 2025 - Present
India — Remote
 - **AI Remediation Engine (Atlas):** Led PoC development for an AI-powered system that autonomously detects exposed keys in code and raises GitHub PRs for safe, automated remediation.
 - **Multi-language Code Transformation:** Engineered dynamic LLM-based logic to accurately transform code across Python, Go, and JavaScript, externalizing secrets to config files.
 - **Distributed Backend Optimization:** Optimized Go-based scanning backend and Kafka messaging for enhanced performance, accelerating Git cloning and overall vulnerability detection throughput.
- **Dotniron Technologies — AI Engineer Intern** Mar 2025 - May 2025
India — Remote
 - **Query Safety Library:** Owned the development of a Python library to classify and sanitize user queries, ensuring safe interactions within production RAG pipelines.
 - **Autonomous Agents:** Developed key components for autonomous financial agents using agentic frameworks to automate complex due diligence research.
 - **Asynchronous Tasks:** Engineered an asynchronous task system with Celery and cron to manage the data lifecycle, automating file and chat deletion policies.

PROJECTS

Singularity Labs Agent

[Code](#) | [Link](#)

Tools: LangGraph, FastAPI, React.js, Google Calendar API, Docker, MongoDB

- Engineered a stateful AI agent to book Google Calendar appointments via natural conversation.
- Implemented a robust concurrency model to prevent race conditions and double-bookings.
- Built a scalable, decoupled backend with features for timezone handling and secure authentication.

Level Up Fitness

[Code](#) | [Demo](#)

Tools: FastAPI, Flutter, MongoDB, JWT Authentication, Firebase, Docker

- Delivered a full-stack mobile app for a local gym, actively serving 100+ clients.
- Empowered admins to manage custom diet/exercise plans and clients to track progress.
- Implemented secure JWT authentication and integrated Firebase for cloud media storage.

NextGenHealth

[Code](#) | [Demo](#)

Tools: FastAPI, Flutter, Gemini AI, Firebase Cloud Messaging, Docker

- Prototyped an AI platform to reduce doctor workload by auto-summarizing patient tickets.
- Integrated Gemini AI to analyze patient history and provide doctors with actionable summaries.
- Built secure, role-based chat with real-time push notifications via Firebase Cloud Messaging.

TECHNICAL SKILLS

Languages & Frameworks: Python, Go, TypeScript, JavaScript, SQL

Backend & Web Services: FastAPI, Chi, Echo, Node.js (Express), REST APIs, WebSockets, Microservices, Nginx

AI/ML & Automation: LangChain, LangGraph, LLM Integration, RAG, AI Agents, Prompt Engineering

Databases & Caching: PostgreSQL, MongoDB, Redis, MySQL

Cloud & DevOps: AWS (ECS/ECR), Docker, Celery, Kafka, RabbitMQ, Git

Frontend: React, HTML/CSS, Flutter