

# NAVEENKUMAR K R

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## OBJECTIVE

Founding-engineer-minded Python and AI engineer driven to build zero-to-one systems from the ground up, with a strong bias toward ownership and execution. Experienced in architecting scalable backend and AI-powered platforms taking products from raw problem definition through data pipelines, model integration, API design, infrastructure, and production deployment. Seeks early-stage startup environments where technical decisions directly shape product direction, system reliability, and long-term engineering foundations.

## EDUCATION

**Bachelor of Engineering (B.E.)**  
Electronics and Communication Engineering

**Proudhadevaraya Institute of Technology**  
2023

## SKILLS

- **Programming:** Python, C/C++, Rust
- **Core CS:** Object-Oriented Programming, Data Structures and Algorithms
- **Backend:** FastAPI, Django REST Framework, Flask, API Design, Scalable Backend Systems
- **Frontend:** React.js, Next.js, JavaScript, TypeScript, Node.js
- **AI/ML:** NLP, LangChain, LLMs, RAG, AI Agents
- **Blockchain:** Smart Contracts, DeFi, Solana, Ethereum
- **Databases:** SQL, NoSQL
- **DevOps:** Docker, Kubernetes, CI/CD

## EXPERIENCE

**VLSI Intern — Maven Silicon** *8 Months*

Worked on digital design fundamentals, RTL concepts, timing analysis, and exposure to industry-standard EDA tools.

**Software Developer — Valuezen** *2 Months*

Contributed to backend API development, debugging, and feature implementation using Python-based frameworks.

**Software Developer Intern — PayAssured** *Dec 2025 – Present*

Working on backend and AI-driven features, scalable APIs, and production-grade systems.

## PROJECTS

### Aviation Chatbot with Autonomous Agents

Built an AI-powered aviation chatbot using FastAPI, Llama-4 (Groq API), Redis, and WebSockets with autonomous intent handling, JWT authentication, and Dockerized deployment.

### Quantum Physics RAG with Phi-3

Developed a fully local RAG system over arXiv quantum physics papers using FAISS and fine-tuned Phi-3 Mini with LoRA for GPU-accelerated inference.

### Solana Staking Application

Designed and deployed a Solana smart contract for secure token staking and unstaking using Rust and Solana Web3.

### CRM – Internal Tools

Built an end-to-end document reviewer system for internal CRM workflows, enabling document validation, review tracking, and role-based access control.