

VINOD VARDARAM

Malleswaram, Bangalore, Karnataka 560003

+91 8310143883 [✉ kalki.the.dev@gmail.com](mailto:kalki.the.dev@gmail.com) [🌐 linkedin.com/in/kalkikal](https://www.linkedin.com/in/kalkikal) [🐙 github.com/VINODvoid](https://github.com/VINODvoid)

Education

Brindavan College of Engineering

2021 – 2025

Bachelor of Technology in Computer Science — CGPA: 8.1/10

Bangalore, IN

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Operating Systems
- Computer Networks
- Database Management
- Machine Learning
- System Design
- Computer Architecture

Experience

Self-Employed

May 2025 – Present

Freelance Full-Stack & AI Developer

Remote

- Build and ship end-to-end web and mobile applications for clients using Next.js, React Native, Hono, Node.js, and PostgreSQL — sole engineer on architecture, deployment, and iteration.
- Design scalable tRPC/REST APIs with JWT auth, RBAC, and distributed job queues (BullMQ/Redis); integrate LLM APIs for AI-powered product features.
- Manage client requirements, scope milestones, and iterative releases independently with zero oversight.

Pentagon Space

Dec 2024 – Jul 2025

Software Development Intern

Bangalore, IN

- Profiled PostgreSQL query execution plans and implemented connection pooling — reduced API response time **30%** under production load.
- Built Node.js/Express REST APIs with JWT authentication middleware, input validation, and structured error handling following secure coding best practices.
- Participated in code reviews and delivered production-quality code in a fast-paced engineering team.

Intervie Tech

Nov 2023 – Dec 2023

Machine Learning Intern

Remote

- Preprocessed 5,000+ candidate profiles using pandas and NumPy; improved model accuracy 15% over baseline.
- Deployed trained inference model via Flask REST API on a Linux server for real-time production use.

Projects

CORTEX — Autonomous Multi-Agent AI System | TypeScript, Bun, React Native, WebSockets, Solana 2026

- Designed a swarm of 10 specialized AI agents with a 5-stage pipeline: Sense → Analyze → Deliberate → Execute → Learn — no action taken without 6/10 swarm consensus.
- Built real-time WebSocket pipeline streaming live agent state to a React Native mobile UI; integrated Solana MWA for hardware wallet signing.
- Solo full-stack (mobile frontend, Bun/TypeScript backend, agent runtime, EAS build) — working APK shipped in **3 weeks** for Solana Mobile Hackathon 2026.

REFLEX — DeFi Position Alert Monitor | Hono, BullMQ, Redis, PostgreSQL, Prisma, React Native 2025

- Freemium multi-chain alert system with real-time BullMQ/Redis job queue, Prisma-managed PostgreSQL schema, feature access.
- Hono backend with JWT auth and RBAC; queue-isolated worker processes per alert type designed for horizontal scalability.

Pluffy AI — LLM Code Generation Platform | Next.js, TypeScript, Node.js, PostgreSQL 2025

- Integrated LLM API for real-time code generation; decoupled inference from the request path via async background jobs to serve concurrent multi-tenant requests without blocking.
- Implemented per-user rate limiting and usage metering to enforce fair-use quotas at scale across tenants.

Lumos AI — Workflow Orchestration Engine | Next.js, TypeScript, tRPC, Inngest, PostgreSQL 2024

- Multi-step workflow engine on Inngest durable execution primitives — each step independently retried, state checkpointed across async boundaries, failures isolated without cascading.
- Designed structured state transitions for dependent task sequences with full execution tracing.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), Python, Rust, SQL, C++

Backend & Databases: Node.js, Express, Hono, tRPC, REST, WebSockets, PostgreSQL, MongoDB, Redis, Prisma ORM

Infra & Tools: BullMQ, Inngest, Docker, AWS (EC2, S3), Vercel, Railway, Linux (Arch), Bun, Git

AI & Mobile: Multi-agent orchestration, LLM APIs (Groq, Anthropic, OpenAI), React Native, Expo SDK 54, Next.js

Blockchain: Solana Web3.js, Anchor, SPL Tokens, PDAs, Jupiter DEX SDK, Metaplex, MWA

Achievements & Open Source

Solana Mobile Hackathon 2026

2026

CORTEX — Monolith track | Sigil — Colosseum Agent track

Remote

- Shipped CORTEX solo in 3 weeks — autonomous AI agent swarm with on-chain execution, live APK deployed via EAS Build.
- Built **Sigil** (on-chain credential protocol for AI agents, Anchor + TypeScript SDK on npm) as a separate solo entry for the Colosseum Agent Hackathon track.

Open-Source Contributor

2025 – Present

Osprey (roostorg), n8n, Onlook

Remote

- Contributed to **Osprey** (roostorg/osprey) — Discord's trust & safety rules engine processing 2.3M rules/sec, used by Discord, Bluesky, and Matrix.org.
- Contributed to **n8n** (fair-code workflow automation, 400+ integrations) and **Onlook** (AI-powered visual React editor).
- Certifications: Web3 Development (100xDevs), Machine Learning Specialization (Stanford/Coursera).