

VIVEK NATHANI

work@vivekn.dev ◇ [GitHub](#) ◇ [LinkedIn](#)

EXPERIENCE

Software Engineer - II

August 2025 - May 2026

AI Growth Private Limited

- Designed and operated backend services for a real-time financial application with strict correctness and compliance requirements.
- Owned reliability and scalability of core production systems, including REST APIs, a real-time Web-Socket feed, and a job scheduler.
- Designed PostgreSQL schemas and high-read query patterns, and built Redis-backed async pipelines with retries, backoff, and failure handling.

Cofounder, CTO

July 2024 - August 2025

Mars Computers

- Built a low-latency remote desktop system with a custom video-streaming pipeline in Rust, achieving end-to-end latency within 2 frames of Parsec in internal testing.
- Worked across networking, video streaming, and OS primitives to reduce end-to-end latency.
- Deployed and tuned dedicated machines across Indian data centers, debugging system and network performance issues.

Software Engineer

December 2022 - April 2024

Investmint

- Built and operated backend systems integrating multiple broker APIs, handling thousands of daily transactions reliably.
- Hacked on everything from processing real-time stock data for 2000+ equities, async tasks, and, integrations with brokers like Zerodha and Dhan.
- Built an internal library to handle multi-broker order processing.

SYSTEMS + OPEN SOURCE

Independent Systems Work

June 2026 - Present

- Contributed to SlateDB, a Rust LSM-tree storage engine, working on scan APIs, range abstractions, and compaction.
- Investigated PostgreSQL and Linux I/O, including io_uring, page cache behavior, and VACUUM's impact on tail latency.
- Contributed to Omnigraph, knowledge graph infrastructure for AI agents, and built agents on top of Rivet, a self-hosted actor runtime.
- Published technical write-ups documenting systems experiments and implementation details.
- Built dbtree, a terminal application for exploring and visualizing PostgreSQL schemas and relationships.

SKILLS

Languages	Rust, Go, TypeScript/JavaScript
Systems	Linux, PostgreSQL, Redis, Networking fundamentals
Infrastructure	Docker, AWS, GitHub Actions

EDUCATION

Symbiosis Institute Of Technology

B.Tech in Information Technology

2019-2023

Pune, India