

Nikhil Adiga

Senior Software Engineer

[✉ nikhiladigaz@gmail.com](mailto:nikhiladigaz@gmail.com) [☎ +91 9148848190](tel:+919148848190) [📍 Mangalore](https://nikhiladiga.pages.dev) [🌐 https://nikhiladiga.pages.dev](https://nikhiladiga.pages.dev)

Profiles

 [LinkedIn](#)
[Nikhil Adiga](#)

 [Github](#)
[Nikhiladiga](#)

 [Medium](#)
[Nikhil Adiga](#)

Experience

Vinyl Equity Jan 2025 - Present

Senior Software Engineer - L4

- Drove **cross-functional AI adoption** using Claude Code and local LLMs, accelerating offline debugging, code reviews, and mentoring for junior engineers.
- Architected a scalable data ingestion service with real-time SSE telemetry, while optimizing for high throughput using **queues and serverless functions**.
- Actively participated in architectural discussions for the product and drove adoption of latest technologies and tools across the company.
- Added robust email functionality to the platform using SendGrid & SES with AWS infra (SQS, Lambda, DynamoDB) as a fallback and a versioned visual template editor integrated directly into the frontend.

Sclera Aug 2022 - Dec 2024

Lead Software Engineer

- Architected features to ensure scalability and performance, and mentored junior developers.
- Built a highly scalable search API using Typesense to search millions of products efficiently.
- Created a serverless solution to automate floorplan image analysis, reducing manual labor by 70%.
- Designed an end-to-end RAG pipeline for a domain-specific intelligent chatbot with multi-modal responses.
- Developed a scalable syslog management solution using Docker macvlan containers, rsyslog, RabbitMQ, MySQL, and NLP for efficient log collection, classification, and alerting.

Access Research Labs Jan 2020 - Aug 2022

Senior Software Engineer

- Co-developed a patented P2P protocol for direct, port-forwarding-free remote hardware connections, implementing it via JavaFX VPN desktop apps for Windows, macOS, and Ubuntu.
- Independently designed a comprehensive network management UI and API (React, Spring Boot, MySQL, netplan) featuring integrated tools like SSH, Telnet, and xterm.js based terminal emulation.
- Built a highly scalable, low-resource API for massive Excel dataset onboarding and optimized deployments using multi-stage Docker images (reducing deployment time by 40% and image size by 82%).
- Mentored and led a team of 4 junior developers to successfully build and launch the Sclera mobile application for iOS and Android.

Education

NMAM Institute of Technology B.E • 8.2 GPA
Information Science & Engineering July 2016 - July 2020

Open Source

- Typesense**
- **Managed the official Typesense code sample ecosystem**, delivering robust reference implementations across major frameworks.
 - **Created technical documentation and migration guides** comparing Typesense architecture with Elasticsearch and PostgreSQL.

- Ministack - Local AWS Emulator**
- **Engineered local emulation support for AWS CodeBuild and CloudFront services**, enabling seamless, offline integration testing and reducing cloud dependency during development.

Skills

 **Backend Development**
Node.js, Express, Redis, Spring Boot

 **Cloud Technologies**
AWS, Docker

 **Frontend Development**
React, NextJS, Zustand

 **AI Tools**
Claude Code, Codex, Open Design

 **Databases**
postgresql, mysql, mongoDB

Publications

Port-to-port tunnel creation for secure remote access to networked devices Dec 2024
Patents
<https://patents.google.com/patent/US20240430231A1/en>