

# Nikhil Adiga

Senior Software Engineer

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## Profiles

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## Summary

Dedicated Senior Software Engineer with 5+ years of experience in crafting scalable, high-performance applications. Proven ability to deliver end-to-end solutions, from initial planning to deployment.

## Experience

**Vinyl Equity** Jan 2025 - Present  
Software Engineer Mangalore

- Developed a robust data ingestion service using Node.js and TypeScript to extract, transform, and load data from multiple platforms, ensuring intelligent parsing and date-wise transaction sorting.
- Created detailed ingestion reports providing transparency on missing data, skipped records, and data quality issues.
- Mentored and guided junior engineers in maintaining and enhancing the data ingestion service.
- Resolved high-priority bugs and issues during critical events such as IPOs and proxy meetings to ensure smooth application performance.
- Leveraged AI tools like Windsurf to build internal automation tools, significantly improving the efficiency of the Operations team.

**Sclera** Aug 2022 - Present  
Lead Software Engineer

- Architected features, ensuring scalability and performance, and mentored junior developers.
- Built a highly scalable search API using Typesense to efficiently search millions of products.
- Engaged with Fortune 500 clients to understand their needs and develop tailored solutions.
- 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** Aug 2021 - Aug 2022  
Senior Software Engineer

- Co-developed a patented P2P protocol to enable direct connections to remote hardware devices without port forwarding.
- Created desktop apps using JavaFX for Windows, Ubuntu, and macOS to implement the P2P protocol via VPN.
- Developed a highly scalable API to onboard assets from Excel sheets, processing large datasets efficiently with minimal resource consumption.
- Led a team of 4 junior developers in building mobile apps for Sclera on Android and iOS. The apps are successfully deployed on the Play Store and App Store and are used by Fortune 500 companies like JLL.

**Access Research Labs** June 2020 - Aug 2021  
Software Engineer

- Independently designed and developed a comprehensive API and UI using React for the front end and Spring Boot with MySQL for the backend to configure the entire network configuration of the hardware using netplan
- Developed APIs for various network tools like Remote Access, SSH, Telnet, Speedtest, Ping, nslookup, and traceroute. Used xtermjs terminal emulator in React for the frontend.
- Utilized multi-stage docker images to reduce deployment time by 40% and docker image size by 82%
- Utilized WebSocket protocol (STOMP) to provide real-time alerts to users.

## Education

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

## Skills

### Backend Development

node.js, postgreSQL, MySQL, Spring Boot

### Cloud Technologies

EC2, Route53, IAM, S3, SQS, EFS, Docker, CloudFront, Bedrock, Lambda

### Devops/Infrastructure

Docker, NGINX, Git

### Frontend Development

React, Redux, react-router, CSS, Vite, NextJS