

Nikhil Adiga

Senior Software Engineer

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Profiles

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Summary

Dedicated Senior Software Engineer with 4+ years of experience in crafting scalable, high-performance applications. Proven ability to deliver end-to-end solutions, from initial planning to deployment.

Experience

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.

Access Research Labs Jan 2020 - June 2020

Intern

- Successfully developed a custom kiosk system on Ubuntu, incorporating React with Redux, react-router, etc for frontend rendering and systemctl services for backend operations.
- Utilized Docker to efficiently manage and isolate various services like Node.js and MySQL.
- Developed a robust Node.js express server for the hardware, responsible for collecting sensor data and pushing it to a cloud server.

Education

NMAM Institute of Technology July 2016 - July 2020

Information Science & Engineering

B.E

8.2 GPA

Skills

Backend Development

Spring Boot, node.js, mongoDB, redis, MySQL

Cloud Technologies

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

Devops/Infrastructure

Docker, NGINX, Git

Build Tools/Dependency Managers

npm, maven, gradle, cocoaPods

Frontend Development

React, Redux, react-router, CSS, Vite