VINOD KUMAR NELANAKULA *-SOFTWARE ENGINEER*

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SUMMARY

Full Stack Developer with 2+ years of experience building scalable web and mobile apps using React, TypeScript, Node.js, Python, and MongoDB. Skilled in creating full-stack POCs and architecting robust, responsive UIs. Passionate about leveraging emerging technologies to craft performant, user-focused solutions.

EXPERIENCE

Associate Software Engineer • Carrier Global Technologies - Jun 2023 – Present

Consumer Portal Web (Web version of SmartHome App)
- Bootstrapped the project from scratch using React Native Web, Tailwind CSS, Webpack, and Vite.
- Implemented deep linking and SEO optimisations, improving search visibility and navigation.
- Increased test coverage to 90% using Jest and React Testing Library.
- Integrated analytics and event tracking to measure engagement.

SmartHome App (Formerly Homeowner App)
- Developed mobile features to monitor air quality and HVAC performance.
- Integrated air quality APIs for pollution data overlays.
- Contributed to the SmartHome redesign for improved stability.

Carrier Support Portal – Full Stack Web App
- Built with React 18, TypeScript, Redux Toolkit, and Firebase Auth.
- Enabled real-time tracking using RTK Query and browser geolocation.
- Designed a responsive UI using Material UI and Tailwind CSS.
- Integrated MongoDB geo queries, Redis caching, BullMQ, and i18n.

Carrier Service Tech App – Proof of Concept (POC)
- Built Python-based backend with MongoDB for fault detection logic.
- Created question logic engine and RESTful APIs.
- Delivered a scalable, self-contained backend POC.

TECHNICAL SKILLS

Frontend: React.js, React Native, TypeScript, JavaScript, Redux Toolkit, Tailwind CSS, MUI, Vite, Webpack

Framework: Next.js, React Native

Backend: Node.js, Express.js, Python

Database: MongoDB, Redis, SQL

DevOps & Tools: Firebase Auth & Hosting, Render, Git, Bitbucket, Jira

Others: JWT, BullMQ, Nodemailer, i18n, ESLint, Prettier, Microsoft Word (expert)

SOFT SKILLS

Communication, Time Management, Adaptability, Collaboration, Self-Motivation

PERSONAL PROJECTS

DrawnGuess (Work in Progress) – *Multiplayer Pictionary Game*

- Building a real-time, Skribbl-like game platform using **Next.js**, **Prisma**, and **MongoDB**.
- Architecting turn-based multiplayer logic with socket connections for interactive guessing gameplay.
- Designed modular backend APIs and scalable database models to support multiple game rooms and players.

CodeNest (Work in Progress) – *Nx Monorepo for Full-Stack Experiments*

- Structured as an **Nx monorepo** with modular apps: personal portfolio, real-time chat prototype, and LiveSync system.
- Configured **Nx Cloud pipelines** to track build performance, cache outputs, and enable remote task execution.
- Built reusable libraries for **themes**, **types**, and **shared components** to unify design and data handling.
- Currently integrating **WebSockets** and **live sync logic** to enable collaborative, real-time interactions

EDUCATION

B. Tech – CSE Jul 2019 – May 2023	RGUKT IIIT RKV Kadapa, AP	CGPA: 8.4
Pre-University Jul 2017 – May 2019	RGUKT IIIT RKV Kadapa, AP	CGPA: 8.2
SSC 2016 – 2017	KNR M.Corp High School Nellore, AP	CGPA: 9.3

CERTIFICATIONS & ACHIEVEMENTS

- Certified SAFe Agile Scrum Master
- Grade A NCC Cadet
- National-Level Yoga Competitor (SGFI, 2014–2017)
- Yoga Instructor to peers and faculty since childhood