KANCHANA DHANA SADASIVAN

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Summary

Software Engineer with 3.5+ years of experience building and shipping production web applications. Strong foundation in computer science and object-oriented programming, with hands-on experience across frontend (React, NextJs, Angular, JavaScript,HTML, CSS) and backend services (Node.js, Java, Python) in collaborative, large-scale engineering teams.

Education

North Carolina State University — **August 2023 - May 2025**
Master of Science in Computer Science — *Raleigh, North Carolina*
Coursework: Algorithms,Software Engineering, Neural Networks & Deep Learning, Computer Networks, Parallel Computers, System Design

Amrita School of Engineering — **Aug 2015 – May 2019**
Bachelor of Technology in Electronics and Communication — *India*

Technical Skills

Frontend: JavaScript (ES6+), TypeScript, React, Next.js, Angular, HTML5, CSS3, TailwindCSS, Redux, Accessibility (ARIA), Responsive Design, Performance Optimization,Figma

Backend: Node.js, Express.js, REST APIs, Java, Python

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, GitHub Actions, Jenkins

Testing & Tools & LLMS : Jest, Cypress, Chrome DevTools, Postman, Git, Linux, Jira, Cursor, Github, Copilot, Claude

Experience

San Quentin SkunkWorks — **Sep 2025 – Present**
Software Engineer — *USA- Remote*
- Built and shipped a secure, production web application using **Next.js**, **TypeScript**, and **PostgreSQL**, supporting role-based workflows for **100+ users**.
- Implemented frontend flows, authentication, and application state management with **Supabase**, reducing manual processing by **40%** and improving reliability.

Infosys Ltd — **Nov 2019 – Dec 2022**
Software Engineer — *Pune, India*
- Owned frontend development for Ford's ETIS Phase 2, building reusable **Angular** and **React** components focused on performance, accessibility, and usability for large-scale consumer-facing workflows.
- Collaborated closely with product managers, designers, and backend engineers to ship new features and iterate on existing UI based on user feedback.
- Built and integrated **Node.js REST APIs** with frontend applications, ensuring secure data flows and optimized client-side rendering.
- Used **Chrome DevTools** and performance profiling to debug UI issues, reduce rendering bottlenecks, and improve page responsiveness by **25%**.

Indian Space Research Organization (ISRO) — **Jan 2019 – Jul 2019**
Project Intern — *Bangalore, India*
- Built a supervised ML pipeline in **Python**/**scikit-learn**/**TensorFlow** to classify defective vs. non-defective bimetal components; improved QA accuracy by **35%** after comparative model evaluation.
- Prototyped a **Flask** dashboard for result visualization, experiment tracking, and exports to support QDSM lab reviews and future automation studies.

Academic Projects

CodeReviewAI – AI-Assisted Code Review Platform [Git] — React — Node.js — TailwindCSS — Gemini API — SSE
- Built a real-time review workflow with inline comments, diff visualization, and persona-based checks (**security**, **performance**); integrated Monaco-style editing and issue triage to speed reviewer focus.
- Implemented responsive **React**/**Tailwind** UI and **Node.js** services streaming **Gemini API** feedback via **SSE**; reduced manual review effort by **50%** and boosted adoption **3x**.

J-Tracker — AI-Powered Job Tracker [Git] — React — Flask — MongoDB — Docker — Selenium
- Built a full-stack job-tracking platform with **real-time listings**, saved states (**Wishlist, Applied, Status**), and **Google OAuth** login; unified search, tracking, and analytics in one interface.
- Integrated **LLM-based resume insights** and automated cover-letter generation via **Ollama/Qwen2.5**; Dockerized Flask microservices and migrated scrapers to **CareerBuilder** with Selenium, boosting reliability by **45%**.

Sentimental Analyzer Pro — Sentiment Analysis Dashboard [Git] — React — Chart.js — Flask-Python
- Built an interactive sentiment-analysis dashboard using **component-based architecture** by using **React**, featuring responsive visualizations, client-side filtering, and streamlined **state management** for improved UX.
- Boosted review and triage efficiency by **60%** through optimized data flows, **session management**, and performance-focused updates aligned with modern **frontend engineering** and **full-stack development** practices.