RAHUL TANGSALI

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Technical Skills

TypeScript, JavaScript, C++, Python, Swift, SQL, React, Next.js, Angular, React Native, React Native Web, SwiftUI, Tailwind, ShadCn, Bootstrap, Radix UI, Redux Toolkit, Zustand, Node.js, Express.js, Flask, Tensorflow, Pytorch, GraphQL, Socket.io, Jest, Cypress, JMeter, Postman, PostgreSQL, MongoDB, MySQL, SQLite, DynamoDB, Prisma, Sequelize, Docker, Inngest, Firebase, Supabase, AWS Amplify, Google Cloud, Wordpress, Cursor, Windsurf

Work Experience

Sumeru Inc. — Los Angeles, CA
Full Stack Developer Intern — 01/2025 - 05/2025 **(4 Months)**
- Delivered a unified React Native Web front-end with a Node.js + Sequelize/MySQL back-end for Jyoti's Vastu Academy (25K+ monthly active users), providing a seamless mobile–web experience.
- Drove the PHP/Laravel → Node.js/React migration, boosting performance and scalability, deployed on AWS with RDS.
- Instituted automated test suites using Jest & Cypress, JMeter load, Postman functional—to catch regressions and performance bottlenecks before release.

Sara Technology Inc. — Los Angeles, CA
Software Engineer Intern — 05/2024 - 12/2024 **(7 Months)**
- Architected animated practice flows in React Native, integrating audio playback and yielding 25% faster page transitions while piloting in 3 schools and 5 speech-therapy clinics within 2 months.
- Built a secure AWS Amplify–powered GraphQL backend and developed authentication and ML-driven onboarding pipelines, accelerating logins while enhancing therapy accuracy and user engagement.
- Revamped the React site end-to-end, supporting an AI speech-therapy platform that won a 1st-place Columbia School grant.

iMocha — Pune, India
Software Engineering Intern — 01/2022 – 12/2022 **(12 Months)**
- Built ML-driven, real-time interview-assessment system using Azure to score spoken answers, modernizing candidate evaluation.
- Refactored the NLP company stack from LUIS to Azure CLU, tripling intent-detection accuracy and enabling seamless scale-out.
- Delivered a responsive Angular and Node.js web app, accelerating feature delivery and elevating user experience.

Education

University of Southern California — Los Angeles, CA
Masters in Computer Science (GPA: 3.68/4) — 08/2023 - 05/2025
Pune Institute of Computer Technology — Pune, India
Bachelors in Computer Engineering (GPA: 9.36/10) — 08/2019 - 06/2023

Projects

Self-Hosted AI Text-to-Speech & Voice Conversion Platform — *Python, Next.js, AWS, Inngest, FastAPI, Docker, StyleTTS2*
- Containerized and deployed three AI microservices—text-to-speech (StyleTTS2), voice conversion (SeedVC) and sound-effect generation—via Docker Compose on GPU-powered AWS EC2, fine-tuning models on 10–15 min of custom audio and using Inngest to queue and throttle requests.
- Developed a secure full-stack solution with a Next.js frontend, Node.js proxy and FastAPI backends, integrating S3 pre-signed URLs, AWS IAM roles for model uploads/downloads, and a credits-based workflow.

AI-Powered Personal Finance Platform — *Next.js, Radix UI, Prisma, PostgreSQL, Clerk, Inngest, Gemini API, Recharts*
- Built a dynamic, mobile-responsive Next.js dashboard with Radix UI and Clerk auth, delivering personalized, AI-driven finance insights and automated monthly reports via Gemini API and Inngest cron jobs for recurring transactions and budget alerts.
- Implemented an ML-powered receipt scanner for seamless expense capture, integrated Prisma ORM with PostgreSQL for reliable data storage, and visualized spending trends through interactive Recharts charts.
- Link to view project: https://ai-finance-manager-qlaq.vercel.app/

Vehiql – AI-Powered Car Marketplace — *Next.js, Gemini API, Shadcn/UI, Tailwind CSS, Supabase, React Hook Form, Zod*
- Built an AI-Powered car marketplace with AI-driven image search via Gemini API, using Next.js, Shadcn/UI and Tailwind CSS to deliver responsive listings, advanced filtering, detailed spec pages, and an interactive EMI calculator.
- Developed an admin portal with React Hook Form and Zod validation, integrated AI car-detail extraction, and managed inventory, Supabase-based auth/storage, test-drive scheduling, and real-time analytics.
- Link to view project: https://ai-car-marketplace-weld.vercel.app/

AI-Powered Recruiter Voice Agent — *Next.js, Tailwind CSS, Radix UI, Supabase, Vapi API, PayPal API*
- Engineered an AI-driven recruiter voice agent with Vapi API to autonomously conduct interviews, transcribe candidate responses, and generate actionable feedback.
- Built a full-stack SaaS platform using Next.js, Tailwind CSS, Radix UI, and Supabase for secure auth, interview management, transcript storage, and integrated PayPal API for subscription-based credits.
- Link to view project: https://ai-interviewer-platform-weld.vercel.app/