

Simran Singh

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Skills

Languages	Python, TypeScript/JavaScript, SQL, Bash
Backend	FastAPI, Node.js, REST
Frontend	React, Next.js, Tailwind CSS, Flutter
Data	PostgreSQL, MongoDB, Redis, Supabase, Firebase, pandas
AI & ML	LangChain, RAG, OCR, PyTorch, TensorFlow, LLM and voice agents, evaluation, NLP, computer vision
Infrastructure	Docker, Kubernetes, AWS, GCP, Vercel, CI/CD, Git, Linux

Experience

Fifth Wheel Jan 2026 – Present

Software Engineer

- Built an autonomous voice agent 0 → 1 (Twilio, ElevenLabs, then Retell) that takes inbound calls from truckers, books loads, and negotiates rates, raising booking completion and cutting negotiation time.
- Cut inbound call handling from **4 hours a day to 5 minutes** (12 calls per shipment at 3 minutes each, roughly 6 shipments a day).
- Shipped dispatching and invoicing (Flutter client, Firestore, GCP) that 300 accounts run daily.

Stellar Jan 2025 – Dec 2025

Software Engineer

- Built and owned the platform for Stellar’s ambassador program (React, Supabase): applications, review, rewards.
- Replaced coordination across spreadsheets, Discord, Notion, and email with a review workflow the system enforces.
- Added a RAG support bot over program docs and past ambassador Q&A to handle routine questions.

The Give Hub May 2024 – Dec 2024

Software Engineer

- Owned donor verification end to end (Python, REST): designed the check pipeline and integrated KYC.
- Replaced manual donor review with scheduled automated checks, removing recurring work staff did by hand.
- Built the audit trail and internal dashboard after noticing support kept escalating verification questions to engineering.

Princeton University Jun 2022 – Aug 2022

Software Engineer (Contract)

- Built the lab’s medical imaging pipeline: ingestion, preprocessing, PyTorch inference, and delivery, served through Django.
- Turned a multi-day manual researcher workflow into a self-serve one that returns results in minutes.
- Productionized it for **100+ researchers** with docs, runbooks, and debugging of model and environment failures.

UC Berkeley Jan 2022 – May 2022

Android Security Researcher

- Reverse-engineered **100+ Android APKs** (APKTool, dex2jar, JD-GUI) to identify malware behavior.
- Wrote the group’s decompilation and triage workflow so findings stayed consistent across analysts.

City of Los Angeles | *Software Engineer Intern* Jun 2021 – Aug 2021

- Built Python/pandas pipelines joining Census/ACS data with 311 records to compare requests by neighborhood.

Projects

LangTrack langtrack.app

TypeScript, Next.js, React, Firebase, Vercel

- Designed, built, shipped, and maintain a language-learning tracking app with auth, billing, analytics, and localization; live in production since Summer 2025 with ~100 monthly active users.
- Next.js and Firebase (Firestore, Auth, Functions), RevenueCat billing, PostHog analytics, CI on types and tests.

Education

University of California, Berkeley | *Bachelor’s in Computer Science*

May 2024