

MANEET SHAH

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EDUCATION

University of California, Irvine

Expected Sept 2027

B.S. Computer Science (Information specialization), Minor in Informatics | Coursework: ML, AI, Databases, Information Retrieval

EXPERIENCE

Backend Engineer, [RevSave.ai](https://www.revsave.ai)

Aug 2026 – Present

AI voice platform that calls back abandoned leads | Next.js, TypeScript, Supabase, Vercel, 572 Vitest tests

- Designed and shipped to production the bidirectional webhook integration (lead intake, per-call results feed, conversion callback) for the company's first paying client; owned the API contract end to end and negotiated it directly with the client's engineer.
- Secured every webhook with HMAC-SHA256 over timestamp + body, a 300s replay window, and constant-time comparison; supported multiple signatures per request for zero-downtime key rotation while the client's legacy auth scheme stayed live.
- Built the revenue-attribution loop that drives billing: conversions credit RevSave only when a matching call was actually dispatched, with hash-based idempotency so retried webhooks never trigger a second call or double-count a conversion.
- Replaced raw vendor-payload forwarding with a versioned, mapped schema so upstream changes can't silently break the client; gated PHI egress behind a runtime kill-switch; fixed v1 bugs (enum mismatch, swallowed DB errors) returning 200 while dropping data.

Data Analytics Intern, SharkNinja

Jul 2025 – Aug 2025

- Designed a Snowflake Cortex Analyst semantic model over DTC order-line data with governed measures (revenue, orders, AOV, units) so non-technical stakeholders could query performance in plain English without SQL.
- Built an 18-question NL-to-SQL benchmark against ground-truth SQL and tuned synonyms and labels to sustain $\geq 90\%$ accuracy at P95 $\leq 5s$; added row-access governance, clustering, and caching; shipped a Streamlit-in-Snowflake demo used for sign-off.

Data Intern, AdvaMed Association

Jun 2024 – Aug 2024

- Built a Python expenditure model over cleaned, linked cross-departmental financial data, replacing an 8–10 day manual forecasting process with same-day turnaround for leadership budget planning.

QA Intern, ByPeople Technologies

May 2023 – Sept 2023

- Ran black-, white-, and gray-box testing across a food-delivery client's end-to-end order flow; logged 27 defects (6 critical) fixed pre-release.

PROJECTS

Cadence — Founder & Engineer

cadencespo.com | 2025 – Present

Athlete readiness platform for college teams | Next.js, TypeScript, Supabase, PostgreSQL, Vercel

- Architected and shipped the full-stack platform (auth, ingestion, scoring engine, coach dashboard, athlete check-in) to production.
- Built an evidence-based scoring engine in PostgreSQL: InRMSSD z-scores vs. 7-day HRV baselines (Buchheit 2013) and EWMA-ACWR load tracking (Murray et al. 2017), producing a 0–100 Train/Modify/Recover signal recomputed by trigger on every check-in.
- Designed ingestion from Apple HealthKit, CSV upload (Jaro-Winkler fuzzy column matching), and manual entry with source priority, deduplication, and completeness scoring; check-ins complete in under 30s. Supabase RLS across 25 tables.

SkinLens — AI Skin Analysis & Routine Engine

Next.js, TypeScript, Supabase, Anthropic API

- Built a hybrid analysis pipeline (deterministic CIELAB colorimetry + schema-enforced LLM grading with 3-vote majority) that cut per-analysis API calls from 21 to 3 and runs in under 11s on Vercel Hobby.
- Found through device calibration that synthetic blur and filter thresholds were off by 2–8x; redesigned the image quality gate with light-dependent thresholds and a warn-only filter heuristic after characterizing its non-monotonicity.
- Cut hot-path auth latency from 407ms to 13ms by replacing a network `getUser()` call with local ES256 JWT verification.
- Designed a fail-closed recommendation engine: referral triggers enforced by function signature, rules as data with cited sources, and a copy lint that blocks any disease or Rx claim; validated grading vs. human raters stratified by skin tone and widened referrals below ITA 20 where the erythema metric fails.

UCI-ICS Search Engine

Python | github.com/Maneetss/cs-121-Search-Engine

- Search engine over tens of thousands of pages with $< 300ms$ queries: inverted index built from on-disk partial indexes (multi-way merge, term-range partitioning) under tight memory limits; tf-idf, Porter stemming, field boosting, phrase queries, n-grams.

IPO Listing-Gain Classifier

Python, FastAPI, scikit-learn | github.com/Maneetss/IPO-prediction-model

- Trained an SVM with nested cross-validation (AUC 0.73) and probability calibration on log-transformed subscription-ratio features; served via a tested FastAPI endpoint with Pydantic validation, deployed to Render.

SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, C/C++, R

Web & Backend: Next.js, React, FastAPI, Tailwind CSS, Streamlit, REST/webhook APIs, HMAC auth, JWT

Data & Infra: PostgreSQL, Supabase (RLS, triggers), Snowflake (Cortex Analyst), Vercel, GitHub Actions, Vitest, Pytest, Git

AI/ML: scikit-learn, TensorFlow/Keras, Pandas, NumPy, Anthropic API, structured LLM outputs, Claude Code