SHIVAM SINGH

thisisshivam@icloud.com · +91 8340390814 · linkedin.com/in/shivam91s · github.com/Terra-01 · terra01.dev

SUMMARY

Product / Full-Stack Software Engineer building Calwyn, an AI job-hunt workspace I developed and operate end to end. **My work covers product decisions, AI pipelines, job orchestration**, multi-tenant Postgres, billing and metering, testing, and production operations. Its predecessor, HireRank, reached **500+ daily active users and paying subscribers** across eleven solo production releases.

My path into software was less conventional. Before writing production code, I spent **two years running retail operations, managing a 10-person team** and handling daily excise compliance with state regulators. I later **worked at Tata Technologies** on Python-based ML for manufacturing safety data, then joined Veritas, an **AI fellowship led by Harvard graduates**, where I trained neural networks on a meteorology dataset.

EXPERIENCE

Founder & Developer

Dec 2025 — Present

Calwyn (formerly HireRank) · calwyn.app

- Built and shipped HireRank through **eleven production releases, reaching 500+ daily active users and paying subscribers**. Rebuilt and relaunched the product as Calwyn after a naming conflict, preserving the core idea while expanding its scope.
- **Built the application end to end**, including a **multi-provider AI pipeline with automatic fallbacks, durable background jobs with real-time updates**, secure multi-tenant isolation, usage metering, billing, and GDPR tooling.
- **Expanded Calwyn beyond résumé scoring** into application tailoring and Fit scoring, job tracking, interview preparation, outreach drafting, salary negotiation, public profiles, and an **OAuth-protected MCP server that lets AI agents handle the job hunt user's behalf**.
- **As the sole developer**, I also take care of the less visible parts of running Calwyn: CI, database migrations, webhook reliability, automated testing, monitoring, billing operations, GDPR requests, and customer support

Data Analyst Intern

May 2024 — July 2024

Tata Technologies

- Worked through manufacturing safety data: incident reports, PPE compliance records, near-miss logs. **Found where and when violations clustered.**
- **Built Python tooling to clean, analyze, and visualize the data** using NumPy, TensorFlow, and Matplotlib.
- Presented the findings to operations leadership, with **several recommendations incorporated into the following safety protocol update.**

Operations Manager

April 2021 — April 2023

Siddhi Vinayak Enterprises

- **Managed day-to-day operations for a 10-person retail team**, including scheduling, training, and performance reviews.
- Handled daily excise compliance, licensing documentation, and reporting for a heavily regulated spirits retail business processing **thousands of customer transactions each month.**
- Worked with the Department of Excise and Prohibition to improve licensing and reporting workflows, **reducing paperwork and speeding up end-of-day close.**

PROJECTS

Calwyn, AI job-hunt workspace
calwyn.app

Next.js · TypeScript · Postgres · Prisma · Inngest · AI

- Calwyn is built around the **full job hunt, not just résumé tailoring**. It keeps applications, contacts, outreach, interviews, offers, reminders, and career information **together in one workspace**.
- For résumé tailoring, I built the analysis as a background workflow that **scores fit against the role**, checks that suggested changes are **backed by the candidate's actual experience**, and can switch AI providers if one goes down.
- Added an OAuth-protected MCP server so Claude, ChatGPT, and other agents can **work with the same career data**, update applications and contacts, prepare materials, and **pick up where a previous session left off**.

ALIA, Advanced Lecture Interactive Assistant
alia01.vercel.app

Next.js · TypeScript · MongoDB · AI
github.com/Terra-01/ALIA

- Turns **recorded lectures into searchable notes students can come back to later**. Audio is transcribed with AssemblyAI, then Gemini generates summaries, titles, follow-up questions, and embeddings for search.
- Built semantic search over that history with Gemini embeddings and MongoDB Atlas Vector Search, so a student can **look for an idea without remembering the exact words used in the lecture**.
- **Supports signed-in, guest, and shared use**. Signed-in users keep their lecture history, guests can use the app without an account, and any analysis can be shared through a public link. **Guest data is cleared after 24 hours.**

Rain Prediction Model and Analysis
github.com/Terra-01/VARP

Python · TensorFlow · Pandas · Scikit-learn

- Used **145K+ Australian weather observations** to predict whether it would rain the following day. Compared logistic regression with a TensorFlow neural network, with the simpler logistic model **reaching 85% testing accuracy**.
- Cleaned and prepared the data in Python, including missing-value handling, categorical encoding, feature scaling, and experiments with under- and oversampling to **deal with the imbalance between rainy and non-rainy days**.
- Built the project during the Veritas AI fellowship **under the supervision of three technical mentors**, where we used the model comparisons to understand the **tradeoff between overall accuracy and performance on the minority rain class**.

EDUCATION

SRM Institute of Science and Technology
Graduated May 2025

Bachelor of Computer Applications (BCA), Data Science · Kattankulathur, TN

St. Xavier's School
Graduated May 2021

Higher Secondary (CBSE), Mathematics with Computer Science · Hazaribagh, JH

SKILLS

Core: TypeScript, JavaScript, React, Next.js, Node.js, PostgreSQL, Prisma, Python, SQL

Backend & Systems: MongoDB, Inngest, Redis, QStash, OAuth, Auth.js, Typst, webhooks, MCP, CI/CD

AI & Tools: Vercel AI SDK, AssemblyAI, ElevenLabs, Generative AI, Claude Code, Codex, Browser Use, Git

Testing & Infrastructure: Vitest, Playwright, Vercel, Cloudflare R2, Neon, PostHog, BetterStack, Docker

Frontend & UI: Tailwind CSS, shadcn/ui, Tiptap, Framer Motion, GSAP, Lucide, Three.js