Tejas Soddy

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Education

Wilfrid Laurier University Sept. 2024 – Present
Honours BSc in Computer Science *Waterloo, ON*

Projects

Scense | *React, TypeScript, Node.js/Express, PostgreSQL, Claude API, AWS, Docker* scense.name

- Built Scense, a full-stack fragrance layering app live at scense.name, with React 19 and TypeScript on the front end, a Node 24 Express API with Zod validation, and PostgreSQL 16 serving 1,000 fragrances and 1.5M pair scores.
- Built an LLM chatbot on Claude Haiku that turns plain-language scent descriptions into structured taste-profile weights, while the server alone ranks 1,000 fragrances by cosine similarity, so the model never names a product.
- Built a GitHub Actions pipeline that runs tests, builds three Docker images tagged by commit SHA, pushes them to GHCR, deploys over SSH to AWS EC2, runs migrations first, and fails unless the health check returns 200 in 60 s.
- Wrote 416 automated tests across Vitest, Supertest, Testing Library, pytest and Playwright, including integration suites on real Postgres and mutation checks confirming the tests fail when a guard or a proxy setting is removed.

Stackd | *React, TypeScript, Zustand, Tailwind CSS*

- Built a browser-based paper-trading app where users trade stocks, ETFs, and crypto with practice money, set limit orders and recurring buys, and watch the prices move and update live every few seconds right on their screen.
- Wrote a market simulation that generates five years of price history for each asset from a seed, so every chart looks identical on each visit, then rebuilt the performance chart by replaying a single transaction log of all trades.

Mitra | *React, Leaflet, Node.js/Express, SQL Server*

- Built a full-stack web app that shows nearby students with shared interests on a Leaflet map using browser geolocation, backed by an Express and SQL Server API that uses parameterized queries to block SQL injection on every request.

HawkMaps | *React Native, Expo, TypeScript, Python/FastAPI (team)*

- Built a Laurier campus app with a team, using React Native and Expo for the app and a Python FastAPI backend, with map, events, study-space, and AI-assistant tabs sitting behind a single Laurier-email login for students.
- Helped build GoldenHawk, an AI assistant with an LLM backend (Claude or Groq) and an on-device fallback that grounds answers in campus data and finds the fastest indoor routes with Dijkstra's algorithm, fully offline.

HarvestAI | *Python, DeepSeek LLM, GeoPandas, Tkinter*

- Wrote a geospatial parser with GeoPandas and Shapely that matches a field location to the right Canada Land Inventory soil dataset and pulls its capability class and land-use limitations for that exact spot on the map.
- Fed that soil context and simulated IoT sensor readings into a DeepSeek model through an OpenAI-compatible API to recommend a fertilizer mix, then showed the readings and results in a Tkinter GUI with Matplotlib charts.

OMEN | *Python, yt-dlp, Genius API, RapidFuzz, OpenAI API, Tkinter*

- Built a desktop tool that turns a YouTube link to a Punjabi song into Romanized and English lyrics, using yt-dlp to read the video, the Genius API and RapidFuzz to find the matching lyrics, and OpenAI to translate them.

Clubs

Lead Developer Feb. 2026 – Present
Waterloo Rocketry Club – Business Team *Waterloo, ON*

- Built a Google Apps Script system on a Google Form that automates purchase reimbursements: on each submission it reads the answers, chooses a reimbursement or direct-charge path, and fills and emails the paperwork on its own.
- For a reimbursement it generates a claim number, fills a University of Waterloo expense-claim template, exports it to PDF, merges the uploaded receipts into one file, and emails the finished package to the student and finance.

Technical Skills

Languages: TypeScript, Python, JavaScript, SQL, Java, C
Full-Stack: React, React Native, Node.js/Express, FastAPI, PostgreSQL, SQL Server, REST APIs, Zod, Tailwind CSS
Cloud & DevOps: AWS (EC2, S3, IAM), Docker, Docker Compose, GitHub Actions, Caddy, Linux, Git & GitHub
AI: LLM APIs (Claude, OpenAI, DeepSeek, Groq), structured output, prompt engineering, AI coding tools
Testing: Vitest, Supertest, Testing Library, pytest, Playwright, Lighthouse
Spoken: English, French (professional working proficiency), Punjabi, Hindi