

Mazen Talsam

mazentbusiness@gmail.com | github.com/mazentalsam | linkedin.com/in/mazen-talsam | mazentalsam.com

Mississauga, ON

Education

Wilfrid Laurier University

B.A. in Computer Science

Expected 2028

Waterloo, Ontario

- Coursework: Data Structures & Algorithms (Python, C), Object-Oriented Programming (OOP, Java), Relational Databases / SQL

AWS Cloud Club, Wilfrid Laurier University — Corporate Member

Oct 2026 – Present

Experience

TD — Global Technology Solutions

Software Engineer Intern/Co-op (Incoming)

Toronto, Ontario

Jan 2027 – Apr 2027

PM Accelerator — AI Engineer Internship

Tech Lead & Fullstack Engineer, Homie.ai

Remote

Oct 2026 – Dec 2026

- Tech lead for 2 of 4 pods (9 of 17 engineers) on an AI app that furnishes a room to a user's budget and style
- Own the app-LLM agent contract: block schema, tool interface, actions API, frozen week 3 so 4 pods ship in parallel
- Writing **Postgres** migrations and row-level security on **FastAPI** and **SQLAlchemy** so each user's rooms stay isolated

csjobs.ca — AI-Powered Job Board for Canadian CS Students | [Live Site](#)

Founder & Full-Stack Developer

Remote

Jan 2026 – to current

- Built and launched a searchable job board used by 500+ students, with paying subscribers, on **Python/Flask**
- Fixed intermittent **502s** affecting 1 in 4 requests by moving scraping out of the **Gunicorn** worker
- Cut **LLM** resume tailoring from 45s to 8s at 1.5¢ per run after benchmarking 6 models on an eval set
- Made resume parsing hallucination-proof: the **LLM** returns only line numbers, validated against the source
- Engineered 40+ **Python** scrapers across 640+ career sites on 13 **ATS** platforms, lifting recall 74% to 83%

Vosyn

Software Developer Intern (AI & Cloud Systems)

Etobicoke, Ontario

Jan 2026 – May 2026

- Tested the **Vimeo API** for download feasibility, then built the database layer that merged to production
- Built the DB foundation for a **FastAPI** microservice with 5 **SQLAlchemy** models so every ingestion request stayed traceable
- Provisioned the schema via an **Alembic** migration and scoped DB sessions so any environment could be rebuilt
- Prototyped a Vimeo download chain (scrape, API, **HLS/DASH**) with per-tier fallback so no dead source failed the job

Laurier Computing Society

Software Developer & First-Year Representative

Waterloo, Ontario

Sep 2024 – Jan 2025

- Served on the club's executive team as first-year representative while shipping code for its website
- Developed full-stack features in **Python**, **JavaScript**, and **HTML/CSS**, replacing manual updates for 3,000+ members
- Added **Django** and **Flask** REST endpoints on **PostgreSQL**, integrating APIs so club data rendered live

Projects

Ruhly — Daily Islamic Reflection App | *React, TypeScript, Supabase* — Co-Founder & Lead Engineer | [GitHub](#)

- Built a **React/TypeScript** app matching Quran and hadith passages to a user's mood, in 8 languages with RTL Arabic and Urdu
- Enforced free-tier caps server-side with **PostgreSQL** triggers and row-level locking, fixing a cap-bypass race condition
- Built push notifications from scratch (**Web Push**, **VAPID**, **pg_cron**) driving 5 scheduled reminder types

Autofill — csjobs.ca Chrome Extension | *JavaScript, Manifest V3, jsdom, Playwright* | [GitHub](#)

- Shipped a **Manifest V3** Chrome extension autofilling applications on 17 hiring platforms via a 1,200-line field map
- Built a **Playwright** harness running the extension against live postings, catching 4 bugs the **jsdom** suite missed
- Handled **React-Select** comboboxes, location typeaheads, and split date fields across multi-entry work history

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C, SQL, HTML/CSS

Frameworks: Django, Flask, FastAPI, Node.js, Express, Next.js, React.js, React Native, Tailwind CSS

Data & Cloud: PostgreSQL, SQLite, Supabase, SQLAlchemy, Alembic, Docker, Linux, Git/GitHub, CI/CD, Nginx

Practices: Agile, Scrum, SDLC, Code Review, Unit Testing, Test Automation, REST API Design, OAuth 2.0