

Ahmad M. Tahir

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EDUCATION

Queen's University

Bachelor of Computer Science Honours, Specialization in Software Design

September 2022 – Present

Expected Graduation: April 2027

EXPERIENCE

Software Engineering Intern

May 2025 – August 2026

Hydro One

Barrie/Toronto, Ontario

- Automated **SCADA/EMS** database release workflows with **Perl** + **GitLab CI**, cutting execution time from **25 to 3** minutes and standardizing a release process now used in production for **1+** year
- Built **25+** automated validation scripts for **SCADA/EMS** database models, improving data quality and saving **10–15** minutes per ticketed task
- Built a **Python** data transformation package that converts EMS modeling requests into **GE Source**-ready import files, applying voltage-based rules and eliminating manual data preparation
- Developed **Power BI** dashboards used daily by operations engineers to track high-priority control-room-impacting tickets, eliminating **~1 hour/day** of manual meeting reporting and status prep
- Migrated a legacy **FORTRAN** dynamic line rating codebase to **C++**, modernizing maintainability and reducing reliance on a single subject-matter expert by making the system accessible to the broader engineering team

Product Engineering Intern

May 2024 – August 2024

SellStatic

Toronto, ON

- Developed full-stack web applications using the **MERN Stack**, implementing application-level caching for frequently requested data to reduce redundant requests and improve data retrieval performance
- Built end-to-end **Selenium** test suites covering the majority of critical application workflows, improving regression reliability across key user flows
- Translated **Figma** and **Webflow** prototypes into responsive, reusable interfaces, collaborating with designers to improve usability across desktop and mobile

PROJECTS

Coursify | Full-Stack Contributor · 1,100+ launch-day users · 5,400+ students

Apr 2026 – Present

- Shipped a **Chrome MV3** extension to the Chrome Web Store, surfacing GPA trends, course offerings, Reddit, and professor reviews directly within Queen's SOLUS
- Built Redis-backed API rate limiting in **Next.js** middleware with IP-, user-, and route-level policies, protecting production endpoints from scraping and abuse
- Integrated Gemini with course-context retrieval, grounding **AI Agent** responses in catalog and review data to support course research, comparison, and planning
- Designed a secure feature-access system with **Supabase Auth** and **PostgreSQL RLS**, enforcing per-user access across AI Agent, Plan Courses, and Degree Planner

Vision Allies | React, TypeScript, Redux Toolkit, React Router, Material UI

March 2026

- Engineered a Jira-style internal **Support Hub** using **React** and **TypeScript**, centralizing issue tracking, developer follow-ups, and ticket resolution workflows
- Architected client-side state and protected navigation with **Redux Toolkit** and **React Router**, enabling authenticated dashboards, ticket details, and persistent resolution states
- Integrated REST API data and modeled **User–Ticket–Comment** relationships, powering contextual ticket histories, reporter information, and discussion workflows

LEADERSHIP

Teaching Assistant 2x | *Intro to Python Programming*

January 2025 – Present

Queen's University

Kingston, ON

- * Led tutorials for **200+** first-year students, enhancing Python comprehension & improving assignment completion rates
- * Streamlined grading, reducing turnaround time by **30%** while boosting student engagement through hands-on exercises

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, SQL, Perl, Bash

Frameworks/Databases: React, Next.js, Node.js, Express.js, Django, Flask, PostgreSQL, Supabase, Redis, MongoDB

Tools/Platforms: Git, Linux, GitLab CI, Vercel, Docker, Power BI, REST APIs, Chrome Extensions, Vitest, Selenium