

SAMIN QURESHI

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Education

University of Guelph

Bachelor of Computing — Degree Completion Pathway

Sep 2026 – Apr 2027 (Expected)

Guelph, Ontario

George Brown College

Advanced Diploma, Computer Programming and Analysis

Jan 2024 – Apr 2026

Toronto, Ontario

Experience

George Brown College

Toronto, Ontario

Research Assistant

May 2026 – Present

- Sole backend developer on a cloud-based energy-management platform built under an industry partnership; design and ship **Node.js**, **Express**, and **PostgreSQL** services and ETL pipelines that ingest sensor data on a one-minute cycle.
- Integrate custom **hardware** with backend software as the software counterpart to the hardware research team, and build **image-processing** and **OCR** document-extraction pipelines processing 50+ documents daily.
- Own the platform's **DevOps** infrastructure, deploying and maintaining backend, frontend, database, and supporting services using **Docker**, **Docker Compose**, **Debian Linux**, **GitHub Actions**, **Caddy**, and **DigitalOcean**, and implemented **OAuth 2.0** authentication for the client-facing web portal, to deliver reliable production releases.
- Cut API response times **50%** (60s to 30s) by profiling database access patterns and shared backend modules across multi-tenant infrastructure.
- Built the platform's automated testing infrastructure from zero to **100+** unit, integration, and end-to-end tests spanning algorithms and hardware/software integration, preventing regressions through **CI/CD**.

Student Help Desk

Apr 2025 – May 2026

- Resolved technical issues for **150+ students weekly** across walk-in, phone, and email while completing full-time studies, escalating complex cases to specialized IT teams and tracking every case in **Microsoft Dynamics 365 CRM**.

Paulos Poetry

Toronto, Ontario

Backend Developer

Aug 2024 – Nov 2024

- Architected scalable backend infrastructure in **Node.js** and **MongoDB** to support platform growth.
- Optimized **Express** endpoints for a **20%** increase in content-submission throughput and refactored legacy delivery modules for high-concurrency traffic.

Toronto Metropolitan University

Toronto, Ontario

Hardware & Software Analyst Intern

Sep 2022 – Apr 2023

- Developed in-house inventory and records-management software to institutional spec, cutting data-entry errors by **15%**, while deploying and decommissioning **150+** enterprise devices with zero security incidents.

Learning Enrichment Foundation

Toronto, Ontario

Data Quality Analyst

Jun 2022 – Sep 2022

- Audited employee, financial, and customer records with **SQL** and **Excel**, and standardized CRM formats to cut duplicate entries by **20%**.

Projects

CoreX | Chess Engine – C++20, Multithreading, CMake

Dec 2025 – Present

- Engineered a **UCI-compliant C++20** chess engine achieving **1800+ Lichess Elo** through optimized search and evaluation.
- Implemented **bitboard** representation and **Zobrist hashing** with a transposition table, and accelerated search with **alpha-beta pruning**, iterative deepening, and move ordering.
- Codebase is private per chess-programming club rules; live Elo and match history available on Lichess under cwood-corex.

Serenity+ | Mental Health Tracker – Swift, SwiftUI, SwiftData, Combine

Dec 2025 – Present

- Shipped a privacy-focused mental-health tracker to the **App Store** using **SwiftUI** and **SwiftData**.
- Built reactive state management with **Combine** for habit tracking, scheduling, and notifications, with fully on-device persistence for journals and streaks.

Technical Skills

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

Frameworks: Node.js, Express, React, React Native, SwiftUI, SwiftData, Combine

Cloud & DevOps: DigitalOcean, Docker, Docker Compose, GitHub Actions, Caddy, Debian Linux, CI/CD

Databases & Tools: PostgreSQL, MongoDB, SQLite, Git, CMake

Protocols: REST, gRPC, WebSocket, OAuth 2.0, UCI

Concepts: Systems Programming, Multithreading, Image Processing, OCR, Hardware/Software Integration, Unit & Integration Testing, Local-First Architecture