

TAHA AZIZ

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EXPERIENCE

Sentia

Software Engineer

Toronto, ON

Jul. 2024 – Dec. 2024

- Developed Sentia data storage platform on Azure, Go, and Node.js for 50+ global enterprise clients
- Redesigned backup pipeline using chunk-based SHA-256 deduplication prior to Azure Blob Storage writes, lowering storage volume by 23% and saving ~\$75k/year in cloud costs
- Built full-stack features by designing RESTful APIs using Express.js and TypeScript, working closely with front-end developers to ensure a responsive UI
- Standardized code reviews with SOLID principles, reducing tech debt and onboarding time for new hires

Software Engineer Co-op

Jan. 2023 – Aug. 2023

- Developed an LLM support assistant using Node.js and React, reducing support ticket volume by 10%
- Diagnosed API response time, replaced JSON stringify with streams, cutting P95 latency from 480 to 210ms
- Wrote Jest tests for API endpoints, improving coverage and reducing regressions

Sheertex

Montreal, QC

Software Developer Co-op

May 2022 – Jul. 2022

- Developed a production monitoring dashboard using React, Python, Flask, AWS S3
- Engineered a QA pipeline with machine vision using Python and PyTorch, enabling automated defect detection at 96.7% accuracy for manufactured goods to reduce QA time by 75%

St. Joseph's Healthcare

Hamilton, ON

Full Stack Developer Co-op

Jan. 2021 – Apr. 2021

- Implemented SQL stored procedures to feed Power BI dashboards for patient data monitoring
- Engineered an ETL pipeline using Python and pandas to sanitize and process large-scale healthcare datasets
- Built a staging environment for the dashboard using GitLab CI/CD, preventing production errors

PROJECTS

Vis-jit NPM Package | JavaScript

2025

- Authored npm module “vis-jit” with JavaScript, for tracing and visualizing Node.js JIT optimizations, such as type inference and inline caching, currently serving 400+ weekly active downloads
- Implemented client-server model for serving log data from Express.js to the frontend visualizer

User Authentication Service | TypeScript, SQL, Go, Rust

2026

- Architected a distributed auth microservice using Go/gRPC, React, Postgres, Docker, and Rust-based parallel Argon2 password hashing integrated via Node.js N-API for <10ms runtime

Waterloo Rocketry: Rocket Tracking Software | C++

2024

- Developed embedded C++ software for GPS radio telemetry of the team’s rocket, with checksum validation of incoming bytes for fault tolerance, allowing operation with up to 50% malformed byte frames

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, Rust, C++14, Go

Technologies: Jest, Node.js, React, PyTorch, pandas, Flask, Redis, Postgres, Docker, Azure, AWS, Git, CI/CD

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science in Mechatronics Engineering and Computing

Jun. 2024

- Coursework: Operating Systems, Algorithms, GPU Programming, User Interfaces, Intro to AI