

# TAHA AZIZ

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## EXPERIENCE

### Sentia

Richmond Hill, ON

*Software Engineer*

Jul. 2024 – Dec. 2024

- Developed Sentia data storage platform mainly with Azure and Node.js for 50+ global enterprise clients
- Switched backup uploads from full-file to chunk-based deduplication using SHA-256 block hashing before writing to Azure Blob Storage, lowering storage volume by 23% and saving ~\$75k/year in cloud costs
- Built REST API endpoints using Express.js and TypeScript to write metadata and file hashes from server to Postgres with SQL queries
- Standardized code reviews with SOLID principles, reducing tech debt and onboarding time for new hires

*Software Engineer Co-op*

Jan. 2023 – Aug. 2023

- Diagnosed API latency and replaced JSON stringify with streams, cutting response time from 480 to 210ms
- Wrote Jest tests for API endpoints, improving coverage and reducing regressions
- Integrated OpenTelemetry tracing and metrics, reducing engineering time spent diagnosing crashes

### Sheertex

Montreal, QC

*Software Developer Co-op*

May 2022 – Jul. 2022

- Developed a production monitoring dashboard using Python, Flask, AWS S3, and React
- 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

- 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 Auth Service | TypeScript, SQL, Rust

- Architected an authentication microservice using React, Node.js, Postgres and Docker, with Rust-based parallel Argon2 password hashing integrated via Node.js N-API for <10ms runtime

### Waterloo Rocketry: Rocket Tracking Software | C++

- 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,

**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