

TAHA AZIZ

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EXPERIENCE

Sentia <i>Software Engineer</i>	Richmond Hill, ON Jul. 2024 – Dec. 2024
<ul style="list-style-type: none">Developed Sentia data storage platform mainly with Azure and Node.js for 50+ global enterprise clientsSwitched 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 costsBuilt REST API endpoints using Express.js and TypeScript to write metadata and file hashes from server to Postgres with SQL queriesStandardized code reviews with SOLID principles, reducing tech debt and onboarding time for new hires	
<i>Software Engineer Co-op</i>	Jan. 2023 – Aug. 2023
<ul style="list-style-type: none">Diagnosed API latency and replaced JSON stringify with streams, cutting response time from 480 to 210msWrote Jest tests for API endpoints, improving coverage and reducing regressionsIntegrated OpenTelemetry tracing and metrics, reducing engineering time spent diagnosing crashes	
Sheertex <i>Software Developer Co-op</i>	Montreal, QC May 2022 – Jul. 2022
<ul style="list-style-type: none">Developed a production monitoring dashboard using Python, Flask, AWS S3, and ReactEngineered 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 <i>Full Stack Developer Co-op</i>	Hamilton, ON Jan. 2021 – Apr. 2021
<ul style="list-style-type: none">Implemented SQL stored procedures to feed Power BI dashboards for patient data monitoringEngineered an ETL pipeline using Python and pandas to sanitize and process large-scale healthcare datasetsBuilt a staging environment for the dashboard using GitLab CI/CD, preventing production errors	

PROJECTS

Vis-jit NPM Package JavaScript	
<ul style="list-style-type: none">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 downloadsImplemented client-server model for serving log data from Express.js to the frontend visualizer	
User Auth Service TypeScript, SQL, Rust	
<ul style="list-style-type: none">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++	
<ul style="list-style-type: none">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 <i>Bachelor of Applied Science in Mechatronics Engineering and Computing</i>	Waterloo, ON Jun. 2024
<ul style="list-style-type: none">Coursework: Operating Systems, Algorithms, GPU Programming, User Interfaces, Intro to AI	