Ryan Sadeghi-Javid

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Applied Science in Computer Engineering, Honours, Co-op — *Sep. 2023 – April 2028*
- Relevant Courses: Data Structures and Algorithms, Computer Architecture, Object-Oriented Programming

EXPERIENCE

Full-Stack Engineer Intern — May 2025 – August 2025
Astan.io (startup) — *New York, NY*
- Shipped the MVP of a creator safety platform (incident reporting & ID verification) for **5,000+** early users, preventing fraudulent signups and saving up to **$1.3M annually** in chargeback and compliance costs.
- Improved ID verification success rate by **70%** through building an automated evidence ingestion pipeline and ranking algorithm in Python + DynamoDB, reducing compliance costs tied to failed reviews.
- Eliminated an estimated **$200K+/year** in costs and increased data reliability to **99.9%** by implementing a standardized webhook framework with centralized event storage across reporting services.
- Built a real-time error reporting and monitoring system in React, TypeScript, AWS CloudWatch, and Azure Insights, restoring frontend observability and capturing **100% of client-side failures**.

Software Engineer Intern — September 2024 – December 2024
Unity Health Toronto — *Toronto, ON*
- Optimized the eAMS asthma platform (**10,000+** patients), cutting API latency **35%** and infra cost **20%**, generating **$300K+/year** in savings with query optimization, AWS rightsizing, and C++/.NET services.
- Recovered over **$1.2M/year** in billing revenue by engineering an automated physician-credit approval tool, cutting activation time **92%** with a full-stack solution built on MongoDB, Express.js, React, and Node.js.
- Saved analysts 350+ hours annually (**$75K** in labor costs) by engineering PHIPA-compliant pipelines for tagging, audit logs, and data exports, cutting release cycles from **1 day to 1 hour** with Python and AWS S3.
- Built a Java Spring/Tomcat tool to auto-tag **10k+** clinical notes, enabling self-serve analytics.

Systems Engineer Intern — January 2024 – April 2024
Crosslinx Transit Solutions — *Toronto, ON*
- Automated **60+** system acceptance tests with Python, PowerShell, and Rust, raising deployment reliability to **99%+** and cutting manual validation, saving teams **400+ hours annually**.
- Cut incident triage time by **25%** and prevented **$250K+/year** in downtime costs by engineering telemetry pipelines for **100K+** daily SCADA/IP records, built in Python + SQL and visualized through Grafana.
- Built low-level monitoring utilities in C++/rust for **500+** field devices, boosting uptime by **30%**, reducing costly service interruptions, extending equipment lifecycle to save an additional **$150K/year**.

PROJECTS

RippleRelief | **Winner - Hack the North 2025** | Devpost · GitHub
- Built a transparent disaster-aid platform on the **XRP Ledger** with a **Flask** backend and **Next.js** frontend, integrating biometric Face ID wallets, and fiat-to-crypto payments for real-time, auditable aid distribution.

Healic | NextStep Hacks *Best Web App* | Live · GitHub
- Built an anonymous peer-support chat using **React.js**, **Node.js/Express**, and **Socket.IO**, featuring issue-based matching, queue fallback, and **dozens** of concurrent rooms. Shipped by a team of three on a hackathon deadline.

UW Orbital | Command & Data Handling (CDH) Software Subteam
- Developed backend APIs in **Python/FastAPI** and mission dashboards in **React/TypeScript**, enabling **ham radio operators worldwide** to request orbital "Selfie-Sat" images and retrieve telemetry in real time.

TECHNICAL SKILLS

Languages & DBs: Python, C/C++, C#, TypeScript/JavaScript, Java, SQL; PostgreSQL, MongoDB, DynamoDB
Systems & Backend: Node.js/Express, FastAPI, React/Next.js, Java Spring; REST, GraphQL, Socket.io
Cloud/Infra/DevOps: AWS (Cognito, API Gateway, Lambda, DynamoDB, S3, CloudWatch, SAM), Azure (Application Insights, DevOps Pipelines); Docker, Terraform, Linux, GitHub Actions; OAuth2/OIDC, JWT, RBAC