

SAMUEL-RYAN VASSERMAN

Software Engineer

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EXPERIENCE

MAINTAINX (FULL STACK ENGINEER)

Montreal, Canada | JAN 2025 - Present

- Working on the Connected Data team, building integration features for industrial manufacturing customers to help monitor and maintain assets with real-time sensor data. Our features enable automation, predictive maintenance, and AI insights to reduce unplanned downtime for over 30,000 customer assets.

Sensor to Asset Mapping Project ([link](#))

- Built an LLM + RAG system to map third-party sensor data to the correct customer assets within MaintainX.
- Eliminated manual customer data mapping, reducing onboarding time from several weeks to a few minutes.
- Drove adoption across 2,000+ sensors and 100 customers since launch. Sales leadership credited the feature as a deciding factor in winning a competitive deal.

AI Coding Enablement Project

- Built a CLI that allows developers to share personal skills or bundle them into internally distributed npm packages (e.g. usage patterns, conventions, gotchas for working with an SDK) directly alongside the source code. Installed packages now automatically provide coding agents with the necessary context, eliminating repetitive guesswork.
- Established a company-wide standard for sharing knowledge with AI agents: skills remain versioned at the source and propagate on install, converting tribal, repo-specific knowledge into a compounding organizational resource. The project became the foundation for a dedicated AI Enablement team.
- Drove 18k+ package syncs and 300+ skill installs across internal repos and developer setups.

Alerting Service Project

- Led a team to build a new alerting service ingesting ML anomaly and automation equipment fault detections. The system aggregates events to reduce noise and displays them in an intuitive user interface, accelerating analyst workflows so customers are notified faster and with the right context to address issues on the shop floor.
- Within one month of launch, generated 700+ equipment alerts, creating 40 customer work orders for critical assets, helping reduce costly failures and downtime.
- Designed the analyst review workflow in partnership with the ML team to act as a feedback loop for model improvement, with reviewed alerts contributing to labelled training data.

MORGAN STANLEY (INTERN)

Montreal, Canada | MAY - AUG 2024

- Built an automated financial data reconciliation platform using Spring Boot and MongoDB, reducing resolution time from 1 day to 1 hour.

DIALOGUE (INTERN)

Montreal, Canada | JAN - APR 2024

- Built pharmaceutical faxing infrastructure using FastAPI, enabling migration away from third-party services and saving \$700k annually.

EDUCATION

MCGILL UNIVERSITY

Montreal, Canada | 2020-2024

Bachelor of Software Engineering (3.97/4.0 GPA)

SKILLS

Languages & Frameworks: TypeScript, C#, Python, GraphQL, Node.js, React, ASP.NET, FastAPI

Data & Infra: AWS (SNS/SQS, S3, DynamoDB), Terraform, Databricks, SQL, Apollo Federation

AI: Coding agents & workflows (Claude Code, MCP, Skills), RAG, LLM Evals