

Suchith Sridhar

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Experience

- **Software Engineer on ML-Serving & Observability | Stripe** **Feb 2026 - Present**
 - Expanded Stripe's ML serving infrastructure to the Frankfurt (FRA) region as part of the European expansion, enabling models to serve predictions with in-region latency.
 - Built the Release Agent, an agentic ML-observability engine that computes score distributions and key model metrics during rollouts to catch unsafe deploys, analyzed and summarized by agents.
 - Improved the continuous-deployment (CD) pipeline for async, Kafka-based models, eliminating manual steps, adding automated validation, and improving safety across 15 models.
- **Software Developer | VTScada by Trihedral** **Sep 2025 - Jan 2026**
 - Worked on the core C++ engine that implements and runs VTScada's proprietary state-based programming language.
 - Improved Internet Client page load time by 27% through profiling and performance optimizations in the engine and client codepaths.
 - Identified and fixed a critical race condition in the engine related to multi-threaded XML processing, improving stability and correctness.
- **Research Assistant | Dalhousie University** **May 2024 - Sep 2025**
 - Build a modular intrusion detection framework using AWS and Terraform for network simulation and data generation.
 - Applied ML techniques for automated classification of attack traffic in VPC-based environments.
 - Working towards publishing academic findings from real-world testing frameworks.
- **Associate Software Engineer (Co-op) | Introhive** **Sep 2021 - Apr 2022**
 - Developed production features across backend and frontend stacks for enterprise CRM software.
 - Operated in Agile sprints; collaborated with cross-functional teams to resolve bugs and deliver client-facing enhancements.
 - Created critical internal documentation detailing end-to-end system architecture and workflows, which significantly improved team knowledge sharing and onboarding.

Education

Bachelors of Computer Science with Honours | Dalhousie University

Apr 2025

Awarded University Medal in Computer Science for highest GPA in graduating class.

GPA: 4.28 / 4.3

Skills

- **Languages:** Python, Java, Go, C/C++, JavaScript, Ruby
- **Frameworks:** Flask, FastAPI, Node.js, Fiber (Go), Echo
- **Cloud & DevOps:** AWS (VPC, EC2), Terraform, Git, Bash, Linux
- **Tools:** Jira, GitHub, Docker, Git, Linux
- **Concepts:** Agile Development, REST APIs, System Design, ML, Network Security.

Projects

- **Ageis: Intrusion Detection Simulation Platform** (Python, AWS, Terraform): Created a modular cloud-based environment for testing IDS frameworks using real-time VPC network simulations and ML-based classifiers.
- **[Suchicodes.com](https://suchicodes.com)** (Go, Python, WebSockets): Self-hosted multi-server personal site with live content sync and server orchestration. Notes section used by 100s of students.
- **Kebab: Genomic Indexing System** (C, C++): Co-developed a novel compact data structure combining Bloom filters, BWT, bit vectors, and k-mers. Authored and submitted research paper proposing memory-efficient solution for DNA indexing.