

# Suchith Sridhar

A developer with strong background in frontend and backend fundamentals, looking for new opportunities to create impact and make a difference.

## Contact

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## Education

Dalhousie University, Sep 2021 - April 2025

Bachelor of Computer Science with Honours

**GPA: 4.28/4.3** (First Class Honours)

University Medal in Computer Science (Highest GPA among graduating class).

## Professional Experience

### Dalhousie University

*Research Assistant, May 2024 - Present*

Build a modular IDS framework using AWS and Terraform for network simulation and data generation. Applied ML techniques for classification of attack traffic. Working towards publishing academic findings.

### Dalhousie University

*Teaching Assistant, Aug 2024 - April 2025*

Taught 3 different undergraduates courses in Algorithms and Data Structures, Machine Learning, System Programming. Head TA for Foundations of Machine Learning, lectured and assisted a class of 60 students in developing proficiency with machine learning, NumPy, and PyTorch.

### Suchicodes

*Freelance Developer, Mar 2022 - Oct 2022*

Designed and implemented custom software solutions for multiple clients, including website UI improvements to enhance user experience and investment appeal. Built a web-based appointment booking system with administrative management interfaces, and managed full system administration from server setup to deployment and maintenance.

## Introhive

*Software Engineering Co-op, Sep 2021 - Apr 2022*

Core member of the connectors full stack development team. Developed client-side interfaces, optimized SQL queries on 1M+ records, and authored internal documentation detailing end-to-end system architecture.

## Languages

Python; Ruby; Golang; JavaScript; HTML5; CSS; Java; SQL; Some experience in C/C++.

## Technologies

React; Flask; Node.js; Fiber; Echo; NumPy; REST API; Machine Learning; Network Security; Agile; Linux; AWS; Terraform.

## Projects

### Ageis: Intrusion Detection Simulation Platform

Created a modular cloud-based environment for testing IDS frameworks using real-time VPC network simulations and ML-based classifiers.

### Suchicodes.com

Developer of Suchicodes.com, a self-hosted multi-server personal site built with Go and Python using WebSockets for live content sync and server orchestration. Hosts a notes section accessed by over 100 students and serves as a portfolio showcasing professional work and achievements.

### KeBaB: k-mer based breaking for finding long MEMs

Co-developer of Kebab: Genomic Indexing Systems, a DNA indexing tool in C and C++. Designed compact data structures combining Bloom filters, BWT, FM-index, Move tables, bit-vectors, and k-mers. Co-authored the paper "KeBaB: k-mer based breaking for finding long MEMs" proposing a memory-efficient method for genomic indexing.

## Awards & Leadership

- Deep Learning Specialization, ([view certificate](#))
- President of Linux Society at Dalhousie University
- Undergraduate Summer Research Award (USRA)
- Rosetti Award for highest 4th year GPA.