

Anshul Agrawal

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Skills

Languages Python, Java, C, Go, SQL, Bash, R, Lua, HTML, LaTeX
Technologies PyTorch, Flask, Git, Gitlab, Envoy Proxy, AWS: Lambda, API gateways; Linux

Education

University of Toronto

Toronto, Canada

COMPUTER SCIENCE SPECIALIST · STATISTICS MINOR · BACHELOR OF SCIENCE HONOURS

Sep 2019 - May 2023

- Focus in Artificial Intelligence and Computer Vision.
- GPA - 3.87 / 4.00 (Dean's List Scholar)
- Relevant courses:
 - Intro to Artificial Intelligence
 - Intro to Databases
 - Operating Systems
 - Neural Nets and Deep Learning
 - Algorithm Design & Analysis
 - Data Analysis II

Work Experience

Goldman Sachs

Toronto, ON

SOFTWARE DEVELOPER INTERN

Jun. 2022 - Aug. 2022

- Researched API reverse proxies and service proxies that fit with current goals and service architecture.
- Created proof-of-concepts using different configuration types of Envoy proxy and created custom configuration types.
- Integrated Envoy into existing API management platform architecture using Java and Go.
- Created a config generator that converted OpenAPI specifications to Envoy configs and dynamically updated Envoy.
- Enabled easier API provisioning on Envoy by passing of a simple OpenAPI specification.

Department of Computer Science, UofT

Toronto, ON

RESEARCH ASSISTANT

May. 2022 - Aug. 2022

- Supervisor - Prof. Sebastian Jaimungal
- Understood existing FDA and hyper-parameter tuned existing FPCA.
- Researched and Implemented DCC-GARCH models for covariance prediction and sample path simulation.
- Created data visualizations for estimating and understanding the authenticity of the simulated sample paths.

Department of Computer Science, UofT

Toronto, Canada

TEACHING ASSISTANT - CSC209 · CSC104

Jan - May 2021 & 2022

- Held weekly labs for 30 students in learning foundational concepts of C programming and Systems programming.
- Led a weekly tutorials for 40 students. Helped students created working demos in object-oriented programming using Python.
- Corrected student assignments, tests, and final exams. Held weekly office hours.

Netcore Cloud

Mumbai, India (Remote)

SOFTWARE DEVELOPER INTERN

May. 2021 - Aug. 2021

- Implemented REST API for bank transaction, and fraud prevention app notifications.
Used AWS Lambda, API gateways, and Go.
- Reported Performance Monitoring stats revealing expensive operations. Used Elastic APM and Kibana
- Wrote client and developer side API documentation enabling client-side IT to easily create http requests reducing developer on-boarding time.
- Built and deployed a Log-Parser to parse every new log file and report rogue clients. Blacklisted 400 clients a day

Projects

Algorithmic Trader

PYTHON, BASH

May. 2021 - Present

- Downloads futures data and evaluates buy and sell signals using an original indicator and a combination of CCI, RSI, ATR, HMA, and MACD.
- Setup an hourly cron for evaluating and sending alerts to a private discord server.
- Created a discord observer bot that parses the alerts and places orders using an online broker API.