

# Anshul Agrawal

SOFTWARE ENGINEER · DATA SCIENTIST

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## Skills

**Languages** Python, Java, C, SQL, Bash, R, Golang, HTML, CSS, LaTeX  
**Technologies** AWS: Lambda, API gateways, S3, DynamoDB; Git, Redis, FCM, APNs, Elastic APM, Kibanna, Flask

## 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**.
- Cumulative GPA - 3.87 / 4.00 (Dean's List Scholar)
- Selected for and successfully completed the **LearnAI** program offered by the UofT AI group.
- Relevant courses:
  - Intro to Databases
  - Operating Systems
  - Intro to Machine Learning
  - Algorithm Design & Analysis
  - Data Analysis
  - Intro to Artificial Intelligence

## Experience

### Netcore Cloud

Mumbai, India (Remote)

SOFTWARE DEVELOPER INTERN

May. 2021 - Aug. 2021

- Implemented a REST API for bank transaction, and fraud prevention app notifications. Developed API using **AWS Lambda, API gateways, S3, DynamoDB and Golang**.
- Reported Application Performance Monitoring statistics revealing unnecessary expensive operations. Used **Elastic APM and Kibana**
- Wrote client side and developer side API documentation enabling client-side IT to easily create and send http requests. Also reduced developer on-boarding time. Documented using **Stoplight**.
- Built and deployed a new Log-Parser and File-Tracker to parse every new log file and blacklist all rogue clients. Blacklisted 4000 rouge clients a day.

### Department of Computer Science, UofT

Toronto, Canada (Remote)

TEACHING ASSISTANT - CSC104 - COMPUTATIONAL THINKING

Jan. 2021 - May. 2021

- Led a tutorial of 30 students in learning foundational concepts of Computer Science including object-oriented programming with Python.

## Projects

### Algorithmic Trader

Python

- Downloads NSE data and evaluates buy and sell signals using an original indicator and a combination of CCI, RSI, ATR, HMA, and MACD.
- The script runs on the cloud every trading day at 4pm, and sends alerts to a discord server using webhooks.
- Another program picks the alerts from the server and places orders using an online broker API.

### Conference Ticketing Platform

Java, CSS

- A program that allows people at a conference (eg. TED conference) to communicate with each other in specific ways.
- Created back-end and UI for booking seats as attendees, creating events as organizers, etc.
- Project demonstrates the **SOLID principles, Clean Architecture, Design Patterns, UML diagrams**, etc.

### Super Resolution

Python

- Took the output video from the First-Order model, and through up-scaling using **Generative Adversarial Networks (GANs)** created a video of higher-resolution for a social media AI start-up Wombo AI.

### Kaggle AI Game Bots (Online competitions)

Python

- Created AI bots for games like Connect4 and Halite 3 using **reinforcement learning and deep learning**.

## Hobbies/Interests

- Algorithmic Trading
- Sports - Soccer and Badminton
- Speed-cubing
- Hackathons
- eSports - Dota 2, CoD, CSGO
- Student Developer Clubs