Anshul **Agrawal**

Software Engineer · Data Scientist

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Technical Skills

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

Education

University of Toronto — *Toronto, Canada*

Computer Science Specialist and minor in Statistics · Bachelor of Science Honours — *Sep 2019 - May 2023*

- **GPA - 3.87 / 4.00** (Dean's List Scholar)
- 3rd year **Computer Science** specialist with a focus in Artificial Intelligence and Computer Vision.
- Selected for and successfully completed the **LearnAI** program offered by the **UofT AI** group.
- Part of the UofT Google Developer Student Club
- Relevant courses:
  - Software design
  - Algorithms and Data Structures
  - Systems Programming
  - Statistics - Data Analysis
  - Intro to Machine Learning
  - Intro to Artificial Intelligence

Work Experience

Netcore Cloud — *Mumbai, India (Remote)*

Software Developer Intern — *May. 2021 - Aug. 2021*

- Built a RESTful API for bank transaction app notifications using **AWS Lambda, EC2, API gateways, S3, and DynamoDB**.
- Wrote client side and developer side API documentation using **Stoplight**.
- Reported Application Performance Monitoring statistics using **Elastic APM** and **Kibana**
- Built and deployed a Logparser and Filetracker to parse every new log file and blacklist all rogue clients.

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.

Software Projects

Algorithmic Trader — *Python*

- Downloads NSE data and evaluates BUY and SELL signals using 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.

Conference Ticketing Platform — *Java, CSS*

- A program that allows people at a conference (eg. a TED-style 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 Architechture, 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
- Hackathons
- Sports - Soccer and Badminton
- eSports - Dota 2, CoD, CSGO
- Speed-cubing
- Student Developer Clubs