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## Work Experience

**Lorica Cybersecurity** Toronto, ON

SOFTWARE ENGINEER | DJANGO, C++, AUTHO, STRIPE, TERRAFORM, HELM, AZURE, CELERY, RABBITMQ, NGINX

Jul. 2023 - May. 2025

- Developed end-to-end backend and infrastructure from scratch, owning user management, automated billing workflows, load and integration testing.
- Engineered a Django backend and accelerated development by integrating AuthO for authentication, Stripe for payments, Azure for hosting, HubSpot for CRM, and MySQL for data storage.
- Engineered scripts for infrastructure provisioning and deployment automation using Terraform, Helm, Vault, Azure CLI—significantly reducing developer overhead and slashing deployment times by 71%.
- Led development of billing components—including subscription plans, usage metering, invoicing, tax handling, and analytics—optimized for real-time customer invoicing.
- Integrated proprietary encryption algorithms and workflows from internal R&D into backend services, forming a critical component of the product's intellectual property.
- · Optimized API endpoints and pipelines through query tuning, caching, and gateway configuration—improving response times by 47%.

**Goldman Sachs** Toronto, ON

SOFTWARE DEVELOPER INTERN | PYTHON, JAVA, GO, NGINX, ENVOY

Jun. 2022 - Aug. 2022

- Used Java and Go to integrate Envoy into the API management platform improving performance by 25%
- Created proof-of-concepts using different configuration types of Envoy proxy and created custom configuration types.
- Designed 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.

#### University of Toronto, Dept. of Computer Science

Toronto, ON

RESEACH ASSISTANT | PYTHON, PYTORCH

May. 2022 - Aug. 2022

- Supervisor Prof. Sebastian Jaimungal
- Optimized Functional Principal Component Analysis. via hyperparameter tuning.
- Implemented Dynamic Conditional Correlation GARCH models for covariance prediction and sample path simulation.
- Created data visualizations for estimating and understanding the authenticity of the simulated sample paths.

**TEACHING ASSISTANT** | Systems Programming · Intro to Computer Science

Jan - May 2021 & 2022

- Led a weekly lab for 30 students in learning foundational concepts of C programming and Systems programming.
- Led a weekly tutorial for 40 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 | PYTHON, RUST, AWS, KIBANA

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

#### Education\_

# **University of Toronto**

Toronto, Canada

COMPUTER SCIENCE SPECIALIST STATISTICS & MATHEMATICS MINOR · HONOURS BSC

Sep 2019 - May 2023

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

## $Skills_{-}$

Languages Python, Java, C, C++, Go SQL, Bash, R, TypeScript

Libraries/Frameworks Django, PyTorch, Celery, Redis, RabbitMQ, GraphQL, Nginx, OpenCV, NumPy, Pandas

> Tools Git, Terraform, Helm, Docker, Kubernetes, Jenkins, Figma Services Stripe, AuthO, Vault, HubSpot, Twilio, AWS, Azure, MySQL

> > ANSHUL AGRAWAL · RÉSUMÉ