

ASEEF ALI HASAN

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EDUCATION

University of Toronto – B.Sc. Statistics and Computer Science

Expected August 2027

Relevant Coursework: Object Oriented Programming, Software Design, Systems Programming, Machine Learning, Data Visualization

EXPERIENCE

Uber **June 2026 – August 2026**

Software Engineer Intern San Francisco, CA

- Incoming Software Engineer Intern on the Earner Growth MLE Team.

Uber **May 2025 – August 2025**

Software Engineer Intern (UberSTAR) Toronto, ON

- Integrated Golang-based backend services for chat messages in Live Activity notifications allowing riders to see driver messages, respond to them, and call their driver from the lock screen across iOS and Android platforms and launched to >50,000 users.
- Onboarded Kafka topics responsible for receiving message text and updates including read receipts to dynamically update the live activity notification with the newest information with under 50 ms of delay and used Redis cache to retrieve payload data.
- Implemented features like inactivity timeout, read receipts, locale-based message translation and pre-canned messages.
- Utilized exploratory SQL queries to understand Kafka topic schema data to produce an ERD (Engineering Requirement Doc).
- Leveraged Grafana dashboards to monitor and A/B test key metrics for app health throughout the multi-day rollout of my feature.

Government of Canada, Department of National Defence

September 2024 – December 2024

Software Engineer Intern Ottawa, ON

- Automated deployment of cyber ranges on Azure using Pulumi with Python, improving infrastructure setup efficiency by 40%.
- Developed Ansible playbooks to configure virtual machines with the Sleuth Kit and Greenbone Vulnerability Manager, enabling real-time hardware troubleshooting and threat scanning across Linux and Windows platforms.
- Deployed a web app with Java and Spring Boot designed with Vaadin to allow users to customize their deployment of ranges.
- Transitioned the web app's cyber range deployment from AWS EC2 to Azure VM, by refactoring Java applications responsible for YAML, Bash, and Shell script generation, decreasing the cost of deployment by 17%.

University of Toronto, [AI Physics and Safety Lab](#)

May 2024 – August 2024

Undergraduate Research Assistant Toronto, ON

- Led the fine-tuning team to develop and train a physics LLM in a DPO pipeline for the Mistral 7B model on the Hugging Face datasets with over 100,000 data points, achieving a 92% accuracy on Nvidia P100 GPUs which reduced training time by 20%.
- Utilized Python, TensorFlow, Pandas and NumPy to fine-tune the Google Gemma-2b model on data science and Python code generation with SFT streamlining development for over 10 non-technical research staff.
- Automated a code-stepping function with Gemini 1.5 Flash, TextGrad (Gradient Descent) and PyTorch to optimize prompting and line-by-line Python code generation leading to a 10% reduction in development time by iteratively refining code solutions.

CouBon Ltd.

October 2023 – August 2024

Full Stack Software Developer Toronto, ON

- Leveraged HTML/CSS to design a user-friendly front-end dashboard and pop-ups for 50+ restaurants to manage their coupons.
- Engineered a UI using Angular (TypeScript) to display customer data that is stored and retrieved through a Firebase database.
- Integrated RESTful APIs with Node.js enabling real-time retrieval of coupon KPIs in sales, marketing, finance and overall usage.

PROJECTS

UNICEF Conflict Prediction using Machine Learning Models | Python, Pandas, Plotly, NumPy, SciPy, Scikit-Learn / [GitHub](#)

- Developed a multiple linear regression model for UNICEF with 88% accuracy in predicting real-world conflict, utilizing Pandas, SciPy, and Scikit-Learn, and stepwise model selection to optimize accuracy with ML models like XGBoost and Transformer.
- Created visualizations with Plotly and Seaborn to communicate insights from UNICEF's researcher data, using statistical methods such as linear regression, classification, and hypothesis testing to assess model performance.
- Assessed ethical implications relevant to the current efforts of UNICEF to minimize global conflict and protect global security.

SKILLS

- **Languages:** Python, Java, Golang, HTML, CSS, TypeScript, SQL, R
- **Libraries/Frameworks:** Angular, Node.js, React, Pandas, Plotly, NumPy, Scikit-Learn, PyTorch, TensorFlow, Flask
- **Tools:** Firebase, Git, GitHub, VSCode, Jupyter, Linux, PowerBI, Azure, Bash, Powershell