LUCKY IM

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EDUCATION

University of Toronto - St.George Toronto, Canada

Bachelor of Applied Science, Electrical & Computer Engineering ***Expected May 2025***

UofT Woman in Science and Engineering / Operating System / Machine Learning / Statistics / Algorithm

WORK EXPERIENCE

Microsoft Redmond, United State

Software Engineering Intern June - Sep 2024

- Developed a Command-Line Interface module for Surface IT Toolkit using C# and OOP principle which helped to streamline Surface device management for IT admins, enhanced system performance by **300%** by introducing multiple CLI processes, maintaining the same features from the previous version of the program.
- Improved the code stability by covering the unit test to **100%** for each module and tested with Surface devices.
- Developed comprehensive telemetry using Kusto Query Language to support data analysis across all modules. Created a Power BI dashboard to visualize all user-telemetry events helped to determine project direction.

Advanced Micro Devices (AMD) Markham, Canada

Software Engineering Intern May 2023 - May 2024

- Developed the model architecture using C/C++ for high-speed chip-to-chip interconnects transceiver analysis, improved performance by **20%** through cache optimization using algorithms and data structures.
- Implemented the pipeline to smoothly transfer to updated version of internal tool by creating Dynamic Linked Library (.dll) for Windows and Shared Library (.so) for Linux, released these to internal production teams; led to **30%** reduction in program runtime and improvement of user-input handling.
- Reduced analysis time up to **300%** for the validation of the high-frequency interconnect analysis, by automating the validation process using MATLAB and Python by handling millions of raw data with Pandas library.
- Coordinated with different teams for validation of the program with various AMD chip packaging with numerous statistical graph diagrams, resulted in **99+%** correctness of the program.

KT Corporation Seoul, South Korea

Software Engineering Intern June - August 2022

- Engineered a generalized **home automation** model for people with physical disabilities in each client's house by using Samsung WebCoRE scripting to control **I/O devices**, and deployed the model into production.

PROJECTS & HACKATHONS

Microsoft Hackathon - Optimized trip planner July 2024

- Developed a trip-planning tool using AI and **OpenAI** to streamline decision-making by providing intelligent suggestions based on user preferences and criteria with Google Map visualization using **Google Map API**.

AMD Hackathon - Market Sentiment Analysis February 2024

- Developed a website for the market sentiment analysis using **React** and **Flask** for the fluent user interaction.
- Implemented supervised learning after pre-processing data by tokening all the AMD product articles from free APIs and used **Scikit-learn library** to implement Mutlinomial Naive Bayes Classification for analaysis.

York University Hacks 2022 - 3rd Place Winner February 2022

- Led and Developed a web application simulating an interactive in-person classroom and serving as a centralized hub for all course content, fostering enhanced student participation in online classroom.
- Built using **React** with Javascript and **FireBase** to develop the database for user's registration and log-in.

TECHNICAL SKILLS

Visual Studio, React, ModelSim, Django, Flask, Pytorch, MongoDB, AWS, TensorFlow, Git, Agile, SQL