Stephanie Yang

syangvan2967@gmail.com
604-837-4689
github.com/syang44

Education

University of Toronto 2019 - 2024

Candidate for Bachelor of Applied Science, Computer Engineering

- **cGPA**: 3.74/4.00, Dean's Merit Award ($5000)
- **Relevant Coursework**: Algorithms & Data Structures, Operating Systems, Software Design & Communication, Computer Organization, Computer Networks, Introduction to Databases, Software Engineering

Work Experience

Software Development Engineer Intern | Amazon Web Services Jun. 2023 - Aug. 2023

- Enhanced customer experience by exporting RDS Performance Insights (PI) metrics to **CloudWatch**, allowing customers to view all RDS telemetry in one place using **Java** and **Python**
- Established metric name aliasing to conform to CloudWatch naming conventions and extended API calls to enable querying metrics with the CloudWatch alias name
- Implemented unit tests, integration tests, canaries and alarms in **AWS CDK** to enhance the deployment process and enforce service level agreement

Software Engineer Intern | Analog Devices Inc. Sep. 2022 - May. 2023

- Reduced development work by creating a custom **Visual Studio** extension in **C#** to autogenerate factory methods and initialize variables, MVVM files, and commands
- Created a **custom diff tool** using Paul Heckel's algorithm to compare JSON-serialized logs of API calls and parameters
- Developed a GUI using **C#** and **WPF** that allows users to interact with transceivers by connecting and programming the ADRV9002 board

Software Development Engineer Intern | Amazon Web Services May. 2022 - Aug. 2022

- Simplified existing architecture in **Java** and reduced operational costs by **1 million dollars** a year by removing the use of DynamoDB for storing compaction data
- Performed a detailed cost analysis using **Excel** to determine the operational costs saved after removing the use of DynamoDB from compaction data
- Configured tools to run performance tests to determine whether the API latency after removing DynamoDB was acceptable

Projects

Soil Monitoring Application

- Currently building a soil monitoring application in a team of 4, which involves transmitting data through a network, storing the data in the cloud, building a web application using **React** to allow users to build custom monitoring dashboards and configure notifications, and an actuation system.
- Created a cloud database using **AWS Timestream** and implemented a **Lambda** function to process **AWS IoT** data and store it in the Timestream database

Geographical Information System

- Designed and implemented a fully functional map in a team of 3 using **C++** and EZGL graphics libraries
- Utilized data structures and developed algorithms to parse and efficiently store data from OpenStreetMap

Extracurriculars

Basketball and Volleyball

- Achieved 10th in the province on the Senior Girls' Basketball team, participated in the UofT women's basketball and volleyball intramurals, and currently playing in an advanced volleyball league

Piano and Cello

- Received the ARCT diploma for piano performance, completed level 8 cello, and tutored kids in both piano and cello