

Jamie Yi

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Education

The University of Toronto

September 2021 – April 2025

Bachelor of Science in Computer Science, Minors in Mathematics, and Religion

CGPA: 3.78/4.00 **Awards:** Dean's List Scholar 2022, 2023, 2024

Coursework: Operating Systems, Algorithms, Data Structures, Computer Networks, Databases, Software Design

Skills

Languages: C, C#, Python, Java, SQL, PowerShell, JavaScript, HTML/CSS, Haskell

Libraries/Frameworks: Pytest, Kafka, Kibana/Elasticsearch, Django, React, Terraform, Terraform Cloud

Developer Tools: GitHub/Git, Postman, Azure, AWS, SSMS, SQLPackage, Jira, Confluence

Professional Experience

Software Engineering Intern

May 2024 – August 2024

Manulife Financial Corporation

Toronto, ON

- Built a **Terraform** module to automate **Azure** and **AWS** permission management for internal users. Created a **Terraform Cloud** workspace to automate deployments of the module.
- Established internal procedure for backing up **SQL databases** hosted on **Azure** and restoring them to **AWS**-hosted SQL databases. Created **PowerShell** and **Unix** scripts to automate Azure to AWS data migration.
- Supported the cloud architecture team in selecting a cloud resilience backup-restore solution. Discussed business needs with solution vendors and gave feedback on their products to the cloud architecture team.

Software Development Intern

May 2023 – August 2023

Bell Canada

Toronto, ON

- Created a **Python** algorithm to diagnose downed service routers and automate their recovery process.
- Developed an improved ticketing system for service technicians when service equipment malfunctions. Communicated with non-technical stakeholders to discuss their needs of the end product.
- Used **Kafka Offset Explorer** to inject alarm messages into testing environment and then view messages in **Kibana** to validate code. Ran tests on preproduction code using **Postman** and Nokia Services Platform API.

Extracurriculars

President

April 2024 – Current

Clubs & Merchandise Director

April 2022 – April 2024

Innis College Student Society, University of Toronto

Toronto, ON

- Oversee a student association hosting events, providing services, and advocating the needs for over 2,200 students.
- Secured \$10,000 in annual grants for Innis College's refugee student program to fund student refugee living costs.

Student Developer

December 2024 – Current

UofT Blueprint

Toronto, ON

- Worked on a job board web app for the non-profit Toronto Community Employment Services.
- Contributed to a **React** app and wrote API endpoints to call on an **AWS S3** bucket.

Projects

Home Server | *Server and Network Configuration, Unix*

- Built a multi-purpose home server that served as a network drive on my home network, and as a Minecraft server that anyone on external networks could connect to.
- Configured the FreeBSD **Unix**-like server operating system to enable desired features, as well as port forward network traffic to make services externally available.

Newtonian Apples | *C#, Unity Engine*

- Created an app to aid physics learning via 3 interactive modules simulating common physics questions.
- Developed the 2D kinematics web module in **Unity Engine**, using **C#** to achieve realistic physics trajectories for projectile launch, as well as adjusting the projectile trajectory depending on user input.

Baking Grafana Dashboard | *Azure, SQL, Grafana*

- Set up an **SQL database** on a new **Azure** tenant populated with records of personal baking creations. Connected the database to **Grafana** to query and visualize the data.