

# Jamie Yi

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## Education

### The University of Toronto

Toronto, ON

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

*Sep. 2021 – Apr 2025*

**CGPA:** 3.76/4.00

**Awards:** Dean's List Scholar 2022, 2023; Innis Later Life Learning Award (\$900) 2022, 2023

**Coursework:** Algorithm Design, Data Structures, Systems Programming, Databases, Web Programming

## Skills

**Languages:** Java, Python, C, C#, SQL (Postgres), JavaScript, HTML/CSS, R

**Libraries/Frameworks:** Pytest, Swing, Kafka, Kibana/Elasticsearch, Django, React

**Developer Tools:** GitHub, Git, Postman, Kibana, Jira, Confluence, VS Code, PyCharm, IntelliJ

## Professional Experience

### Software Development Intern

May 2023 – August 2023

*Bell Canada*

*Toronto, ON*

- Spearheaded a project to reduce residential internet outage minutes on business and residential customers.
- Created an algorithm and implemented a **Python** script to check downed service routers and to automate their recovery process, diagnosing the service routers with NSP API.
- Implemented unit tests for the automation script and kept them up to date with internal framework updates.
- 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 as well using **Postman** and NSP API.
- Participated in agile development cycles, code reviews, devops methodology, and CI/CD.

## Leadership

### Peer Mentor, First-year Learning Communities

September 2022 – Present

*Department of Computer Science, University of Toronto*

*Toronto, ON*

- Provided upper-year guidance to 35+ first-year computer science students by facilitating developmental and social activities on a bi-weekly basis (topics such as transitioning to university or job-hunting advice).
- Collaborated with other peer mentors attended workshops to discuss how to best engage the mentees.

### Clubs & Merchandise Director

April 2022 – Present

*Innis College Student Society, University of Toronto*

*Toronto, ON*

- Ordered, inventoried, and sold over \$8000 worth of Innis College-related merchandise annually.
- Manage budgets, provide support for events, and consult with club chairs with how to best deliver programming for 5 clubs that 100s of Innis College students participate in.
- Led the student society along 15 other students, participating in biweekly meetings to discuss affairs

## Projects

### PetPal | *HTML, CSS, JavaScript, Django, React*

September 2023 – December 2023

- Created a pet adoption webapp in a group of 4 students.
- Built webpages from scratch using **HTML**, **CSS**, and **JavaScript**.
- Backend API was implemented using **Django** REST framework, **React** was used for the frontend to connect the HTML pages to the backend

### Newtonian Apples (NewHacks 2023 project) | *C#, Unity Engine*

November 2023

- Created a webapp to promote interactive physics learning, including 3 modules that simulated common physics questions; taking in user input to model different situations of the same type of question.
- Developed the 2D kinematics web module in **Unity Engine**, using **C#** to implement realistic physics trajectories for projectile launch, as well as adjusting the projectile trajectory depending on user input.

### Home Server | *Server and Network Configuration, Unix*

May 2023

- 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.