

Skylar Ji

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SKILLS

Languages: Python, HTML, CSS, JavaScript, C, Bash/Zsh, Java (Processing, Groovy), SPL, Racket

Frameworks/Tools: React, Node.js, FastAPI, MariaDB, MongoDB, Git, Splunk, Jenkins, OpenShift, Figma, MS Office, Firebase

EDUCATION

Bachelor of Computer Science | University of Waterloo

September 2022 - April 2027

- **GPA:** 3.99/4.00 | Member of Tech+ and WiCS | Design Lead for Make-a-Wish Waterloo
- **Relevant Courses:** Algorithm Design and Data Abstraction, Tools and Techniques for Software Development

WORK EXPERIENCE

DevOps Engineer | Royal Bank of Canada

July 2023 - August 2023

- Leveraged **Splunk** queries and **cron** to visualize data, send Slack alerts and monitor the statuses of 30+ Mac minis for RBC's Mobile DevOps ecosystem, decreasing the **mean time to recovery by 98%**.
- Designed a system that tracks the Mac mini activities of 15+ users using **Zsh**, enhancing user-finding **efficiency by 90%**.
- Utilized **Jenkins** and **Groovy** to synchronize the ConfigMaps between **OCP** and **GitHub**, reducing human error and **saving one hour/week** previously spent on manual work.

Innovation Developer | Royal Bank of Canada

July 2022 - August 2022

- Developed an internal secure URL shortener with a project team of eight under **agile sprints** using **React**, **FastAPI**, and **MariaDB**, transforming **100+** RBC employees' experiences.
- Modernized the shortener's browser extension and Slackbot with feedback from conducting seven user interviews.
- **Earned the Best Performing Team Award** and the **Best Creative Solutions Award** at the end of the internship.

Co-Founder and Website Developer | Waviolet

July 2020 - August 2020

- Headed five members in creating the startup, aiming to provide UV-C sanitation light products during the pandemic.
- Launched a company website using **HTML**, **CSS** and **JS**, designed attractive social media posts that reached 300+ followers and interviewed 15 potential customers, ensuing 11 interested buyers **valued at \$7000**.
- Pitched and achieved the **Biggest Dreamers Award** in BETA Camp, an entrepreneurship program.

PROJECTS

Cute Christmas Countdown | <https://github.com/Skylarji/cute-christmas-extension>

December 2022 - August 2023

- Engineered the extension's styling, colour design and UX/UI using **React** and **Figma** to create an easy-to-use and attractive platform for everyone, including **five active users**.
- Streamlined the extension using two npm modules to strengthen the countdown's maintainability.

Mr. Tortoise (Battlesnake) | <https://github.com/Skylarji/mr-tortoise>

July 2023 - August 2023

- Developed a functional battlesnake to compete in the autonomous survival game, claiming a **top-5 finish**.
- Programmed and debugged various algorithms to increase the battlesnake's win rate by 80% when finding food and avoiding other snakes using pathfinding, arrays and dictionaries in **Python**.

Animal Genie (Animal Guessing Game) | https://github.com/Skylarji/animal_genie

September 2021 - January 2022

- Collaborated with two students to build the application and user manual, attaining **30+ users**.
- Directed and programmed the application's backend and graphical user interface using **Java**, using an algorithm to isolate one out of 25+ possible questions for the application to ask the user each time.

AWARDS & ACTIVITIES

Certifications & Awards:

- [Containers & Kubernetes Essentials](#) (IBM - 2023)
- [Jenkins, Web APIs and SQL](#) (LinkedIn - 2023)
- First Place - T&O Case Competition (RBC - 2023)
- [Joseph H. Lang Scholarship](#) (Academics - 2022)
- [Principal's Leadership Award](#) (2022)
- BETA Camp Valedictorian (2020)

Activities:

- Founder | United Under Arts Waterloo
- Math Ambassador | University of Waterloo
- Participant | SHAD 2021
- Participant | RBC Summer Tech Labs | **1.75%** acceptance rate
- **500+** volunteer hours | LinkedIn Content Creator