

## EDUCATION

**University of Waterloo** 2020 - Present  
Bachelor of Computer Science, Physics Minor  
Current CGPA: 3.88/4.00

## AWARDS

- President's Upper-Year Award 2021
- President's Scholarship of Distinction 2020
- National AP Scholar (Canada) 2020

## EXPERIENCES

### Capital One

*Software Engineer - Intern*

September 2022 - December 2022

- Developing a tool to automate the API creation process on the edge service for Capital One mobile application back-end.

### University of Waterloo

*Research Assistant - Prof. Hachisuka*

September 2022 - December 2022

- Assisting in the research of using stochastic processes to efficiently approximate solutions of the Navier-Stokes equations.

### Capital One

*Software Engineer - Intern*

January 2022 - April 2022

- Led the development and design of a central data organization program used by the enterprise to improve accessing and modifying data from multiple sources, resulting in a **300% reduction in number of necessary databases**.
- Created a front-end user interface made with **React** stored on **AWS S3**, communicating with an **AWS DynamoDB** database with over a **100 rows**.
- Developed **6 REST API endpoints** made using **Python** with the **boto3 SDK** hosted on **AWS Lambda** capable of propagating all changes in **less than 2 seconds**.
- Used **Terraform** and a proprietary **Infrastructure as Code** system to write configuration files to set up and deploy said services using a **Jenkins pipeline**, in accordance to **DevOps** best practices.

### OpenText

*Software Developer - Intern*

May 2021 - August 2021

- Developed and maintained a web-based internal tool used by **more than 800 employees**, using **Java** to add string parsing and status check APIs.
- Added a control-flow visualization feature for itineraries using **JavaScript** with **XHTML** and **PrimeFaces** framework, **reducing user look up time by 50%**.
- Utilized **Docker** and **TeamCity DevOps** for multiple fast and secure deployments on servers alongside **Kubernetes** to achieve smooth scalability and **0 downtime**.

## SKILLS

- **Languages:** JavaScript, TypeScript, C/C++, Python, HTML5, CSS3, Java, Latex, C#, SQL
- **Libraries/Frameworks:** React, NextJs, Gatsby, SocketIO, Electron, Flask, ExpressJs, PrimeFaces
- **Technologies:**, Node.js, AWS, GCP, Git, Firebase, Docker, Kubernetes, REST, GraphQL

## EXTRACURRICULAR ACTIVITIES

- **UW Blueprint - Project Developer** Fall 2022  
Working with Feeding Canadian Kids non-profit to develop software in accordance with their needs.

## PROJECTS

### Songyo

- Designed a web-app game using **ExpressJs** and **Node.js** for the back-end and **SocketIO** to send and receive data from the front-end.
- Deployed to **Heroku** with functional logging, recording **over 100 players per month** for more than 6 months.

### TD Visualize

- Led a team of 3 to design a **hackathon-winning** data visualization web application by using **Python** and **Flask** to visualize personal financial data provided by the **TD Da Vinci API**, making it easier to prevent fraud.
- Generated multiple graphs, such as heat maps and user friendly charts, by using **Google Maps API** and **chart.js**.