

Dinu Wijetunga

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Languages TypeScript, Python, JavaScript, Kotlin, C++, C, SQL, Gremlin Graph, Java, Golang
Frameworks NestJS, Flask, React, Redux, React Native
Tools Git, Postman, Azure Cloud, Cosmos NoSQL DB, Swagger, Docker, AWS, Unix, MySQL, Postgres

Experience

Cloudspark Labs

TypeScript | NestJS

SOFTWARE ENGINEERING INTERN - BACKEND

May 2021 - Aug 2021

- Reduced auth API requests by **15%** through the development of an **API Key** microservice with deployment via **Azure Pipelines**
- Improved querying speed for **1000s** of interconnected data points by **30%**, switching **SQL** queries to **Gremlin Graph** Traversals
- Contributed to **Microsoft's Open Source** PowerPlatformConnectors by developing and submitting a **Custom Connector**
- Integrated **5+ microservices**, leveraging Chrome **Debugging Tools** to resolve issues when communicating between services
- Improved the efficiency of **Azure Workflow** setup by **60%** through automation of tasks using API **webhook** triggers

Ryerson University Aerospace Department

MATLAB | AutoCAD

SOFTWARE DEVELOPER INTERN

Aug. 2019

- Optimized a test aircraft's energy efficiency by **30%** by developing a **MATLAB** program to analyze solar panel sunlight absorption
- Created **AutoCAD** designs for an aircraft motor testing mount, and assisted with fuselage construction for a small aircraft

City of Mississauga

First Aid & CPR C Certified

SWIM INSTRUCTOR AND LIFEGUARD

Sep. 2018 - Aug. 2020

- Taught swimming lessons to children/teens and guarded community swims (responsible for **80+ swimmers**)

Projects

The Shoe Project - UWaterloo Blueprint

TypeScript | Golang

WEB APP DEVELOPED FOR A NON-PROFIT ORGANIZATION

Sep. 2020 - May 2021

- Built an **interactive map** to display **75+** stories written by Canadian immigrant women with an **admin portal** to manage stories
- Contributed to a **Go REST** API implementing **JWT** user auth, **Mapbox** API, and user **roles**, with deployment on **Heroku**
- Developed story filter component using **TypeScript/React**, **CSS** styling, **MaterialUI**, React hooks, and **styled components**
- Worked in an **Agile** team with **Git** version control, communication with **designers** on **Figma**, and weekly **client** meetings

EZventory

Python | Kotlin

INVENTORY MANAGEMENT APP FOR SMALL ORGANIZATIONS. Available on Google Play!

May 2020 - Aug. 2020

- Designed to help school clubs and sports teams keep track of their supplies with easy cloud saving and **CSV** exports
- **Python/Flask** backend: **REST** API, **JWT** auth, and **MySQL** DB (**SQLAlchemy**); containerized **Docker** deployment on **AWS EC2**
- **Kotlin/Android** frontend: user **authentication**, **filtering** and **CRUD operations** on inventory items, and **HTTP** API requests

Community

UWaterloo Blueprint

Waterloo, Ontario

PRODUCT MANAGER

April 2021 - Present

- **Co-managed** a team of 6 devs to create StarterCode: a tool for reducing the time required to build WebApps for **nonprofits**
- Coordinated a **3x increase** in use of StarterCode by petitioning for adoption across all Blueprint non-profit facing project teams
- Consulted with Blueprint Technical Leads to scope out areas of need and prioritize features for developers to work on

Peel Student Presidents' Council

Peel District School Board

DIRECTOR OF LEADERSHIP

Sep. 2018 - Jun. 2020

- **Lead** organizer of a 2-night/3-day leadership retreat for **250+ students**; managed a **\$60 000 budget** and **40 student leaders**

Community Volunteer

Mississauga, Ontario

480+ VOLUNTEER HOURS TOTAL

Jun. 2016 - Mar. 2020

Education

University of Waterloo

Waterloo, Ontario

BACHELOR OF SOFTWARE ENGINEERING, B.SE

Sep. 2020 - Present

- **CGPA:** 4.0, Dean's Honours List 2020

Stephen Lewis Secondary School

- Recipient of the **Gold**, Silver, and Bronze Levels of the **Duke of Edinburgh International Award**
- **Schulich Leader Scholarship**, offered Canada's most prestigious undergrad STEM scholarship at McGill University (declined)