Dinu Wijetunga

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Languages	TypeScript, JavaScript, Java, Kotlin, HTML, CSS, C, Python, Golang, MATLAB, SQL
Frameworks	React, Redux, React Native, Flask
Tools	Git, Postman, Docker, Figma, AWS, Unix, Android Studio, MySQL, Postgres

Experience

Ryerson University Aerospace Department   *MATLAB | AutoCAD*

SOFTWARE ENGINEERING 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 grad students 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 - Present*

- Built an **interactive map** to display **50+** stories written by immigrant women in Canada with an **admin portal** to manage the stories
- Developed story filter component using **TypeScript/React**, **CSS** styling, **MaterialUI**, React hooks, and **styled components**
- Contributed to a Go REST API implementing **JWT** user auth, **Maxbox** API, user **roles** in the admin portal, and deployment on **Heroku**
- Worked in an **Agile** team of **10** devs with **Git** version control, communication with **designers** on **Figma**, and weekly **client** meetings

EZventory ⌸ ▷   *Kotlin | Python*

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 exporting to spreadsheets
- **Kotlin** frontend on **Android**: user **authentication**, **filtering** and **CRUD operations** on inventory items, and **HTTP** requests to backend
- **Python/Flask** backend: **REST** API, **JWT** for auth, and **MySQL** DB (**SQLAlchemy**); containerized with **Docker**, deployed on **AWS EC2**

FlickPicker ⌸ 🔗   *TypeScript*

A TOOL TO HELP PICK A MOVIE FOR WATCH PARTIES WITH FRIENDS   *Dec. 2020 - Present*

- **TypeScript** frontend: **React Native** for **cross-device** compatibility and **Redux** for efficient state management; leveraged React **hooks**

Community

Peel Student Presidents' Council   *Peel District School Board*

DIRECTOR OF LEADERSHIP   *Sep. 2018 - Jun. 2020*

- Planned monthly events for **200+ students** as one of 8 elected executives in a youth-led non-profit serving **42 high schools**
- **Lead** organizer of a 2-night/3-day leadership retreat for **250+ students**; managed a **$60 000 budget** and **40 student leaders**

Community Volunteer

480+ VOLUNTEER HOURS TOTAL   *Jun. 2016 - Mar. 2020*

- Math and science tutor for at-risk youth, SafeCity Mississauga: developed weekly lessons to complement students' learning at school
- **International Volunteer**, MEtoWE Tanzania: laid the foundations of a schoolhouse and repaired village homes
- Program Assistant, ErinoakKids Centre for Treatment: helped children with disabilities gain independence through weekly activities

Student Council   *Stephen Lewis Secondary School*

PRESIDENT (FORMER VICE PRESIDENT)   *Sep. 2016 - Jun. 2020*

- Led a team of **20 executives** to plan major school events and helped raise **$45 000+** for charitable organizations over 4 years

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**, Canada's most prestigious undergrad STEM scholarship, offered at McGill University (declined offer)
- **Principal's Award** for extraordinary achievements in extracurricular activities and academics in high school (2020)
- Governor General's Bronze Award for the highest academic average in grade 11 and 12 combined