Dinu Wijetunga

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Languages	C++, Python, Go, TypeScript, Kotlin, JavaScript, C, SQL, Gremlin Graph, Java
Frameworks	Kakfa, NestJS, Flask, React, Redux, React Native
Tools	Git, Postman, Postgres, Docker, Swagger, Kubernetes, Azure Cloud, CosmosDB, AWS, Unix, MySQL

Experience

Coinsquare
Go | Python

BACKEND SOFTWARE ENGINEERING INTERN (ONGOING) — *Jan 2022 - May 2022*

- Designed, developed, and tested scalable data infrastructure for a leading Canadian **cryptocurrency** exchange platform
- Eliminated vendor costs by **$300k/year** as the primary backend developer for a new PDF generation and storage **microservice**
- Securely stored trade records for **500k users** by following **Zero Trust** practices when developing **GraphQL** queries and handlers
- Reduced data-fetching request latency by **25%**, setting up a **Kafka** consumer and producer connected to **Postgres**
- Leveraged **Docker** containers and **Kubernetes** pods to deploy to testing environments and monitored health with **Logz.io**

Cloudspark Labs
TypeScript | NestJS

BACKEND SOFTWARE ENGINEERING INTERN — *May 2021 - Aug 2021*

- Developed, debugged, integrated, and streamlined deployment of **5+ microservices** for a collection of Enterprise HR apps
- 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**
- Improved the efficiency of **Azure** Workflow setup by **60%** through automation of tasks using API **webhook** triggers

The Shoe Project ○ 🔗
TypeScript | Go

SOFTWARE DEVELOPER - CREATED A FREE WEB APP 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**

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

Activities

UWaterloo Blueprint
Nonprofit Consulting

PRODUCT MANAGER — *April 2021 - Present*

- **Co-leading** a team of **12** developers and designers to create a course building platform to educate about domestic abuse
- Managing delivery schedule and budget to meet client's timelines and eliminate **$5000** in current platform fees for NPO
- Conducting regular user interviews to create a comprehensive and engaging custom solution for educating **400+** users
- Facilitating developer-design syncs, and ensuring smooth hand-offs of designs to developers, creating an **MVP in 3 months**

EZventory ○ ▷
Python/Kotlin Side Project

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 Volunteer
480+ Volunteer Hours

VARIOUS NONPROFIT ORGANIZATIONS — *Jun. 2016 - Mar. 2020*

FlickPicker ○ 🔗
TypeScript Side Project

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 state management; leveraged React **hooks**

Education

University of Waterloo
Waterloo, Ontario

BACHELOR OF SOFTWARE ENGINEERING, B.SE — *Sep. 2020 - May 2025*

- **CGPA:** 4.0, Dean's Honours List 2020
- Awarded Kurt and Marianne Strobele Engineering Scholarship ($24 000) for leadership and community service in tech