

### **TECHNICAL SKILLS**

Languages: C/C++, Python, BASH, HTML, JavaScript, CSS, Go, Ruby, Racket, Haskell

Tools: Git, Heroku, GCP, Firebase, Visual Studio, Xcode, Android Studio, Qt

Database: MySQL, SQLite3, PostgreSQL, NoSQL Frameworks: React, React Native, Flask, Node.js Operating Systems: Windows, Mac OS, Linux

#### CO-OP EXPERIENCE

# Software Development Engineer (July 2021 – April 2022) Safronica Ltd. (Stealth mode startup).

- Worked as Mobile Application Programmer and was involved in diverse development platforms which include iOS and Android, using React Native and Firebase.
- Developed promotional web pages to advertise the app by using React.
- Implemented the complex mobile applications design, and core functionalities.
- Implemented Python scripts and deployed them to Google Cloud Virtual Machine for permanently running and processing data, by which the workload of the app was reduced, and the speedup was achieved.
- Experienced maintaining/bug-fixing or updating already build.
- Documented for the product as well as solutions for the team troubleshooting docs. Assisted the manager in creating onboarding tutorials.

### **PROJECTS**

# **MyDictlet**

A full-stack web application helping English learners build vocabulary

- o Created Python (Flask) servlets with RESTful APIs to handle HTTP requests and responses
- o Built a relational database (PostgreSQL) to store users' data
- Designed an interactive website using AJAX technology (HTML, JavaScript, CSS)
- Deployed it on Heroku. Implemented the deployment workflow using Heroku pipelines

#### Multi-threaded Producer-Consumer Problem

- Implemented a C++ program to solve the multi-producer/multi-consumer problem using 'pthread', 'mutex', 'conditional variable', etc. and went through the core concepts related to the multi-process synchronization problem.
- Used the slurm workload manager to develop and test the program by utilizing multiple compute nodes

## Simple Showcase

Simple Showcase is an e-commerce-like web app helping users manage, demonstrate and browse products/images.

- Developed this web application using Python, Flask, Flask-SQLAlchemy, Flask-Login
- Created sign-up and login forms and added authentication for user management
- Managed data with SQLite3 as a database management system tool.

### **EDUCATION**

### **Simon Fraser University**

Bachelor of Computing Science | CGPA 3.46/4.33

May 2019 – Dec 2022

**Hohai University** 

Master of Engineering

Sep 2007 – Jun 2010

Bachelor of Engineering

Sep 2003 - Jun 2007