XU WEN

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TECHNICAL SKILLS

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

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

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.

- Worked as Mobile Application Programmer and 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, core functionalities.
  - Redesigned, Implemented and optimized main components, such as universal topbar, navigation bar, tabs, etc. Improved user experience.
  - Refactored in-app user search functionality. Successfully avoided unnecessary results returning.
  - Thoroughly optimized UI styling resulting in highly positive comments from test users.
- Implemented Python scripts and deployed to **Google Cloud Virtual Machine** for permanently running and processing data, by which the workload of the app was reduced and a speedup was achieved.
  - Implemented Python scripts as automatic notification generator, database reset and cleanup tools
- Experienced maintaining/bug-fixing or updating already build.
- Documented for the product as well as solutions for the team trouble-shooting docs. Assisted the manager in creating onboarding tutorials for several sessions, such as **Google Cloud Virtual Machine**, **Firebase Analytics,** web page developed in **React** and relevant packages.

PROJECTS

MyDictlet

A full-stack web application helping English learners build vocabulary
- Created **Python (Flask)** servlets with **RESTful APIs** to handle **HTTP requests and responses**
- Built **relational database (PostgreSQL)** to store uses' data
- Designed an interactive website using **AJAX technology (HTML, JavaScript, CSS)**
- Deployed it on **Heroku**. Implemented the deployment workflow using **Heroku pipelines**

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 database management system tool.

EDUCATION

Simon Fraser University
Bachelor of Computing Science | CGPA 3.47/4.33   May 2019 – present

Hohai University
Master of Engineering   Sep 2007 – Jun 2010 | Bachelor of Engineering   Sep 2003 – Jun 2007