# **SKILLS**

Languages JavaScript, C#, PHP, C/C++, Python, Java, HTML/CSS

TECHNOLOGIES React, Flask, Azure, PostgreSQL, Heroku, Unity, Xamarin, GCP, Nginx, Git, Unix

### **EXPERIENCE**

### RELOGIX | SOFTWARE DEVELOPER

Ottawa, ON | Oct 2019 - Feb 2020

- Reduced development and installation times by creating an internal tool with **Xamarin** that uses NFC to communicate with IoT devices.
- Improved cross-device communication speed by 40% by implementing a custom encryption scheme.
- Optimized memory usage by 70% by implementing Google Protobuf to efficiently serialize structured data.
- Has been adapted by all Relogix installation teams.

### **PROJECTS**

## DOXMY.TECH 🗗 | React, Flask, PostgreSQL, Azure

Github 🗹

- Built and deployed a full stack web application using **React, Flask, Python, and PostgreSQL** allowing users to analyze their social media profiles.
- Developed data pipelines allowing social media data to be cleaned, formatted properly and stored in a PostgreSQL database.

## CHIP8.XYZ [ | REACT, JAVASCRIPT

Github 🗹

- Developed and deployed a Chip8 Emulator using React.JS capable of running any program designed for CHIP8 hardware.
- Created a system to dynamically convert binary data into a stream of executable functions to run user-created software.

#### GRAMMAR HAMMER I PYTHON, JAVASCRIPT, PHP, AZURE, HEROKU

Github 📝

- Spearheaded the creation of a device that gives physical feedback based on the correctness of users' spoken grammar.
- Trained a **NLP model** to check sentences for grammatical correctness with **80%** accuracy.
- Created a system to allow for communication between a **Heroku server** and Arduino client.

#### AR GRAPHER | C#, UNITY (HACK3 FIRST PLACE PRIZE)

#### Published on Google Play 🖸

- Created an Android app using **Unity** that displays the graphs of 3D mathematical functions in augmented reality based on user input.
- Engineered a computer algebra system in **C#** to solve multi-variable algebraic equations.

## **EDUCATION**