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Skills

Languages C/C++, Python , JavaScript , Clojure/ClojureScript , HTML/CSS , Kotlin , MySQL, MATLAB , VHDL

Frameworks & Libraries React, Vue.js, Node.js, Express, Flask, Android, OpenCV

**Tools & Technologies**AWS, GCP, Terraform, Docker, Git
Interfaces
Raspberry Pi, Arduino Uno, FPGAs

## Work Experience

Oxilight Toronto, ON

SOFTWARE DEVELOPER Sept. 2020 - Dec. 2020

- Single-handedly developed a dashboard web app with data analytic tools to analyze medical measurements using **React**
- Built and tested several features for the company's **Android** apps including a daily routine feature using **Kotlin**
- Implemented video conferencing and logging capabilities for the main client interface with **Jitsi** and **Google Cloud Platform**
- Created and deployed new API Gateway endpoints with AWS Lambda handlers using Node.js to perform CRUD tasks
- Designed DynamoDB tables with DyanmoDB Streams and AWS Lambda to create an event-driven architecture

eSentire Waterloo, ON

SOFTWARE DEVELOPER

Jan. 2020 - Apr. 2020

- Developed the next iteration of company's main client interface using **React**, **Clojure**, **EQL**, and a **PostgreSQL** database
- Constructed data rich widgets by analyzing client security data using a graph API built with Clojure and Pathom
- Implemented a resource server to authenticate users and API calls using Flask, Okta, and OpenIDConnect
- Built a tool to generate tailored powerpoints by manipulating data from a PostgreSQL database using Python and Flask
- Significantly improved deployment process for an internal API by refactoring the project to use **AWS** and **Terraform**

#### **Conrad School of Entrepreneurship and Business**

Waterloo, ON

ENTREPRENEUR IN TRAINING

May. 2019 - Aug. 2019

- Specialized entrepreneurship co-op work program consisting of a 1-week intense **entrepreneurship** bootcamp followed by 2 micro-placements at early-stage start-ups **JUGELO** and **PFERA** for 10 and 5 weeks respectively
- Developed features for company's mobile and web platforms using Vue.js, PHP/Laravel, MySQL, and Ionic
- Built a REST API with Express to allow clients to efficiently and securely store shipment data in a NoSQL database
- Implemented a web application using a Vue.js front-end, Firebase database, and Node.js/Express backend

# **Projects**

### **Sorting Visualizer**

**Vue.,Js**Aug. 2019 – Sept. 2019

- Developed and deployed a static single page application to allow users to visualize various sorting algorithms using **Vue.js**
- Implemented sorting algorithms such as **bubble sort**, **merge sort**, and **insertion sort** to compare algorithm running times
- Built features to control sorted array size and speed to provide multiple scenarios to visualize the various algorithms

#### **Real-time Hand Gesture Detection**

PYTHON, OPENCV, KERAS, TENSORFLOW

Aug. 2019 - Sept. 2019

- Applied binary image thresholding and morphological transformations on live video using OpenCV to allow a neural network to predict various trained hand signs and numbers in real-time
- Built and trained a convolutional neural network using Keras and a Tensorflow backend with up to 99.1% accuracy
- Produced a dataset of approximately 10,000 grayscale images for neural network training containing unique hand signs

#### **Personal Website**

REACT, GATSBY, HTML/CSS

May. 2019 - Present

- Developed a progressive web app portfolio to showcase skills, projects, and experience using **Gatsby** and **React**
- Implemented a dark/light mode feature and built a custom **UI/UX** using React's component based architecture

## **Education**

#### **University of Waterloo**

Waterloo, ON

CANDIDATE FOR BACHELOR OF APPLIED SCIENCE IN COMPUTER ENGINEERING

Sept. 2018 - Present