

Experience

Verity Studios Zürich, Switzerland

SOFTWARE DEVELOPMENT INTERN

Sept. 2018 - Apr. 2019

Bringing together technology and the arts with indoor drone show systems.

Skills: C++, Qt, Python, Gerrit, Git

- · Designed and implemented a music managing application as a part of the operational software suite of a drone show system
- Augmented the functionality of various tools and applications by writing efficient and well-structured production code
- · Assisted in client demonstrations, conducted tests, and collected data from the drones and software system

Awake Labs Toronto, Ontario

SOFTWARE DEVELOPER May 2017 - Aug. 2017

The company behind Reveal; an AI powered application designed to support care for mental health disorders.

Skills: Android Development, Flask, Python

- · Engaged in discussions concerning the design of the Reveal platform; topics included database schema, security, and API structure
- · Prototyped an Android application that interacts with the Google Speech API and implemented supporting API calls

Fatigue ScienceVancouver, British Columbia

A wearables company focused on using predictive fatigue to optimize performance and minimize risk.

Skills: TypeScript, JavaScript, C++, Qt, AngularJS, Ionic, Bitbucket, testing

- Implemented features, re-factored code, and debugged a hybrid mobile application
- Assisted in testing and validating an evolving web application and mobile platform
- Constructed and deployed a cross-platform Qt application designed using object oriented principals

Education

University of British Columbia

Vancouver, British Columbia

BSc in Computer Science

JUNIOR SOFTWARE DEVELOPER

Expected May 2020

Currently enrolled in the final year of a bachelor's program

ETH Zürich Zürich, Switzerland

MOBILITY STUDIES IN COMPUTER SCIENCE

Feb. 2018 - Aug. 2018

Sept. 2016 - Apr. 2017

A semester long exchange. Relevant courses include: Introduction to Machine Learning, 3D Vision, and Ubiquitous Computing

Projects

Global Alignment of Meshes on the Hololens

ETH Zürich

MESH REGISTRATION ANALYSIS FOR THE HOLOLENS

June. 2018

• Evaluated the performance of the the Guaranteed Outlier Removal algorithm (GORE) and RANSAC by analysing alignment errors and run-times on meshes generated by the Microsoft Hololens

The Adventures of Jack O'Lantern

UBC

PLATFORM GAME IN ELM

Nov. 2017

- Leveraged a functional programming language to create a side-scrolling platform game including moving enemy units, collectibles, high scores, and a start menu
- Coordinated development with 3 other individuals through issue tracking and version control

UBC Course and Room Catalogue

UBC

TypeScript API for parsing, storing, and querying information

Nov. 2017

- Implemented a RESTful API that is capable of handling queries about UBC courses and buildings
- · Employed object-oriented principals to write easily extensible code and composed a suite of tests to provide over 95% line coverage

Pokédex Database UBC

WEB APPLICATION THAT INTERFACES WITH A RELATIONAL DATABASE

June 2016

- · Created a web application that uses PHP and SQL to interact with a database managed using Oracle
- · Designed the conceptual schema of the database and structured queries for the retrieval and addition of data