

Isabelle André

Electrical Engineering, University of British Columbia

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WORK EXPERIENCE

Associate Software Developer — Teradici

MAY 2020 - PRESENT, VANCOUVER, BC

- Expanded and improved the build system required to generate a PCoIP Client for Windows, Mac, Linux, and mobile platforms
- Improved the automation infrastructure by integrating new tools to reduce manual steps and errors, saving engineers hours of work.
- Converted framework modules from Python 2 to 3 and created custom test scripts to ensure backward compatibility of new code

Full Stack Software Engineer — Appstrax Technology

JULY 2019 - AUGUST 2019, LISBON, PORTUGAL

- Implemented a ticketing solution for providers and clients to track projects on a single interface using NodeJS and Angular
- Created a REST Api with Loopback connected to an SQL database
- Integrated black-box testing with a variety of unit tests

ACTIVITIES

UBC Engineering Design Teams

Rapids — Co-Captain, Firmware Lead

- Managing a team of 20+ students to build and fix 3D printers, and optimize the firmware and printing mechanisms
- Create and lead a new software team researching and optimizing the Marlin firmware while setting new goals and milestones
- Write clear documentation while collaborating with teammates to configure and test firmware for custom printer parameters

Unmanned Aircraft Systems — Systems Software Engineer

- Developed a python flask API obtaining telemetry for data processing and computing the speed and heading of an aircraft
- Created API endpoints processing other aircrafts' telemetry at intervals from an interoperability server to avoid collisions

Launchpad — Software Engineer

- Developing an iOS mobile application to track and classify a group's expenses with notifications using Swift, Node.js, and MySQL
- Built application infrastructure and API endpoints, and configured docker containers with a MySQL database for the backend

Clubs and Student Life

UBC Kung Fu Club — President

Engineering Undergraduate Society — Secretary

EDUCATION

University of British Columbia

SEPTEMBER 2018 - PRESENT

3rd Year Electrical Engineering

Vancouver, BC, Canada

Language Skills

Verbal/Written: French, English

Conversational: Japanese

TECHNICAL SKILLS

Languages

Java, Javascript, C, C++, Verilog, ARM, Python

Frameworks

Node.js, Loopback, Angular, Ionic, Django

Other

FPGA, Git, SQL, Jira, Makefiles, Docker, Microcontrollers, Arduino, Linux

PROJECTS

Metal Collecting Autonomous Robot

C, MAKEFILES, EFM8, STM32F051, NRF24 TRANSCEIVER, BO230XS USB SERIAL

Designed and programmed a metal detecting robot collecting metallic objects automatically, restricted within a 0.5 m² perimeter wire, or manually using an Xbox controller.

AirBnb Web Application

JAVASCRIPT, TYPESCRIPT, HTML, CSS, EXPRESS, ANGULAR, IONIC, SQL, NODE.JS

Developed and deployed an AirBnb web application from front-end to back-end, including a consumer app, a provider app, and an admin panel

RISC Processor

VERILOG, ARMv7 ASSEMBLY, MODELSIM, QUARTUS, INTEL FPGA MONITOR, DE1 SOC

Programmed a RISC CPU using System Verilog HDL running basic OS programmed in ARM Assembly