

Cyrus Behrooz

SOFTWARE DEVELOPER • MECHATRONICS ENGINEER

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Experience

Trueface, Los Angeles, CA

June 2019 – Present

Computer Vision Engineer

- Build and maintain C++ SDK for facial recognition, object detection, threat, liveness, age prediction, and others.
- Support CPU and GPU deployment for Linux and macOS for x86 and ARM
- Work alongside machine learning team to evaluate and improve models

DarkVision Technologies, Vancouver, BC

Jan 2018 – Aug 2018

Software Developer Intern

- Responsible for C++ 17 development for embedded Linux and desktop Windows applications. – [C++ 17](#), [CI](#)
- Created firmware programming utility to parse Intel HEX file and write packets to flash memory. Reduced the firmware programming time by factor of 5. – [Linux](#), [VisualGDB](#)
- Built G-Code programming interface complete with console and text editor to send commands to tool via serial, replacing the existing method of using PuTTY. – [ImGui](#)
- Implemented H.265 (HEVC) hardware codec to encode ultrasound data in real-time, significantly decreasing encoding time. – [H.265 Encoder / Decoder](#)

Intel, Vancouver, BC

May 2016 – Dec 2016

R&D Engineering Intern

- Independently developed and tested POC sports training device. – [Intel Curie SoC](#)
- Modified headworn device design and performed microphone placement study, resulting in the optimal microphone array placement for voice isolation. – [Solidworks](#), [Microelectromechanical systems](#)
- Performed signal processing to quantify beamforming algorithm performance. – [Matlab](#)

Projects & Ventures

QuickER, Vancouver, BC

Sep 2018 – May 2019

Co-Founder, Full-Stack Developer

- Single-handedly developed web-based software which connects emergency rooms to nearby walk-in clinics. – [SPA](#), [JavaScript](#), [React](#), [Redux](#), [Node.js](#), [MongoDB](#), [DigitalOcean](#), [Twilio](#)
- Utilize web scraper to obtain and display live wait times at walk-in clinics. – [Python](#), [Selenium](#), [Ubuntu](#), [Cron](#)
- Met with key players in the Vancouver healthcare space to validate venture and business model.
- Won Hatching Health Medical Innovation event for project with greatest impact.
- Actively working to continue building customer relations and preparing to launch pilot program.

Classly.io, San Francisco, CA

May 2017 – Aug 2017

Co-Founder, Full-Stack Developer

- Led a team of 4 engineers to build a real-time education management software, collaborating with professors at The Wharton School of Business and The Hong Kong University of Science and Technology.
- Architected a single-page application supporting dynamic React Components and Redux state management. – [SPA](#), [JavaScript](#), [React](#), [Redux](#), [Node.js](#), [CSS](#), [HTML](#), [Heroku](#)
- Worked as a scrum master to facilitate stand up meeting and sprint planning, while designing software architecture and database schema. – [Agile](#), [Git](#), [MongoDB](#)
- Final product was installed at Horizons School of Technology and had 30 daily active users on average.

Education

University of British Columbia, Vancouver, BC

Sep 2014 – May 2019

Bachelor of Applied Science, Mechatronics Engineering

Honors with Distinction

Horizons School of Technology, San Francisco, CA

May 2017 – Aug 2017

Developed skills in client-side and server-side web development using languages and frameworks such as JavaScript, React, and Node.js, through an immersive full-stack curriculum.