Cyrus Behroozi

SOFTWARE DEVELOPER • MECHATRONICS ENGINEER

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Experience

Trueface, Los Angeles, CA   June 2019 – Present
Senior C++ Computer Vision Engineer
- Lead SDK development team.
- Build and maintain dependency-free cross platform C++ computer vision SDK.
- Support CPU and GPU deployment for Linux, macOS, Windows, Android, iOS, for x86, AArch32, AArch64.
- Leading the embedded thermal solution for elevated body temperature detection.
- Work alongside machine learning engineers to evaluate 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.