Austin, TX
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Cyrus Behroozi

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Employment

Senior Computer Vision Engineer & SDK Team Lead — **Trueface (Pangiam)** — **Jun 2019 – Present**

Los Angeles, California

- Lead SDK and Matcher On-Prem (REST API server in docker container) teams at Trueface, a computer vision company specializing in face recognition.
- Spearheaded research effort to achieve number 1 global rank for speed by National Institute of Standards and Technology, Face Recognition Vendor Test.
- Write high-performance C++ CPU and GPU machine learning inference code which is compiled for X86 and ARM, for Linux, MacOS, Windows, used by DHS, airlines, and airports.
- Built thermal-camera embedded elevated body temperature detection solution which was used by US airports during Covid pandemic.
- Create product vision and roadmap, attend sales calls, provide client support, write core SDK code, write and maintain documentation and sample apps, build out CI/CD infrastructure.

C++ Developer Co-op — **DarkVision Technologies** — **Jan 2018 – Sep 2018**

Vancouver, BC

- Created firmware programming utility to parse Intel HEX file and write packets to flash memory.
- 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.

R&D Engineer Co-op — **Intel** — **May 2016 – Dec 2016**

Vancouver, BC

- Researched optimal placement of microphone sensor array on headworn device.
- Performed signal processing to quantify beamforming algorithm performance.

Education

Vancouver, BC — **University of British Columbia** — **Sep 2014 | May 2019**

- Bachelor of Applied Science in Mechatronics Engineering. GPA: Honors with Distinction

Projects

- **TensorRT C++ API Tutorial** (github.com/cyrusbehr/tensorrt-cpp-api) One of the best open-source tutorials on how to use the TensorRT C++ API for high-performance GPU machine learning inference. Includes video recording and presentation slides from live presentation at Venice Computer Vision Meetup. C++, CUDA, TensorRT
- **YoloV8 TensorRT C++** (github.com/cyrusbehr/YOLOv8-TensorRT-CPP) A C++ implementation of YoloV8 object detection and semantic segmentation using TensorRT. C++, CUDA, TensorRT

Skills

- Languages: C++, Python, CMake, SQL, Bash
- Tools: Docker, Git, Linux, CI/CD, Command Line
- Libraries: OpenCV, ONNX Runtime, TensorRT, OpenVINO, ncnn