

Scott Bauersfeld

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Education

University of California, Los Angeles

Master's in Computer Science

December 2020

Bachelor of Science in Computer Engineering

June 2020

Honors: Departmental Scholar in Computer Science, Dean's Honor List, UPE inductee

GPA: 3.99

Technical Skills

- **Experienced** in C, C++, and Python
- **Proficient** in JavaScript, Matlab, Verilog, Ocaml, Lisp, and Prolog
- **Familiar** with HTML, CSS, and Bash

Work Experience

Qualcomm – Software Engineering and Machine Learning Intern **June 2019 - September 2019**

Project Objective: Enable ONNX Runtime machine learning framework to be executed on DSP cores

- Assisted in the development of an execution provider framework from the ground up
- Mapped ONNX machine learning operations to Android device specific operations

Symantec – Software Engineering Intern **June 2018 - September 2018**

Project Objective: Assist in the development of a C++ API for virus scanning

- Updated the API to create a consistent interface that supports remove/replace operations
- Implemented unit tests in C++ and system tests in Python
- Suggested and implemented changes to backwards compatibility architecture

General Atomics – Engineering Intern **July 2017 - September 2017**

Project Objective: Automate a Dual Confocal Microscope (DCM) measurement device with LabView

Projects

Fazeka Score Prediction **June 2019**

- Created deep convolutional networks to predict the severity of white matter hyperintensities in human brains from MRI scans by assigning one of four Fazeka score labels to each patient
- Incorporated transfer learning with pre-trained Keras models to improve accuracy and decrease cross-entropy loss when training on a small data set

Interactive WebGL Video Game **November 2018**

- Developed an interactive game with JavaScript and WebGL to be played on internet browsers
- Incorporated collision detection, normal mapping, particle effects, physics, and scene graphs

Leadership Experience

UCLA Backpacking Club Technical Officer **September 2018 – Present**

- Assist in managing a club with over 100 hundred members and plan events to build a community of people with a passion for the outdoors

The Coding School Teacher **January 2019 – March 2019**

- Prepare lessons and teach programming fundamentals to middle school students

Outdoor Adventures Guide **September 2017 – September 2018**

- Prepare, coordinate, and lead wilderness trips as a guide and wilderness first responder