





Experience


01/2020 – Current  **Apple – Machine Learning Engineer** | *Neural Network Inference*
Building a compiler and runtime for blazing fast on-device inference and training.
IRs, TF & Torch model conversion, execution scheduling, etc.


Internship Experience


06/2019 – 09/2019  **Apple – Machine Learning Engineer Intern, Vision** | *Applied ML Research*
Built models and training pipelines using TensorFlow that improve on-device digital image quality.


06/2018 – 09/2018  **Apple – SW & Machine Learning Engineer Intern, Vision** | *Applied ML Research*
Experimental project. Modeling in Pytorch, data collection, on-device model pruning and integration.

06/2017 – 09/2017  **Google – Software Engineer Intern, Tools and Infrastructure** | *Cloud Billing*
Created system reliability and perf data viz/analysis tools. Built and deployed full-stack dashboard.

12/2016 – 04/2017  **UW School of Nursing – Software Engineer** | *Clinical Informatics Research Group*
Feature additions, UX/UI design, code quality for the mPOWER wound tracking web application.


06/2016 – 08/2016  **Microsoft – Software Engineer Intern** | *SQL Server Tooling*
Data analysis, feature additions, dashboarding, and bug fixing for SQL Server Management Studio.

06/2015 – 08/2015  **Blue Origin – Software Engineer Intern** | *Avionics*
Built automation framework in python and bash for testing rocket launch sequence.


06/2014 – 08/2014  **Boeing – Software Engineer Intern** | *P-8 Program*
Modified framework to streamline software testing. Performed code analysis on existing codebase.


12/2013 – 02/2014 **SeaTec Consulting – Lead Software Engineer Intern**
Evaluated integration of a popular open source project for use with testing an inflight internet system.

Education

2019  **University of Washington** – *BS Computer Engineering, Paul G. Allen School, GPA 3.80*

Research & Teaching

Fall 2018 – Fall 2019  **University of Washington – Teaching Assistant**
Courses: *The Hardware Software Interface* | *Systems Programming* | *Compiler Construction*
Introduction to C, C++, Berkeley Sockets, Assembly, x86 asm, Compilers, Memory Allocation, etc.
Duties: Teaching a weekly section, holding office hours, grading, course planning and materials

Winter - Spring 2018  **University of Washington – Research Assistant** | *MODE Lab*
MODE: Machine Learning, Optimization, Distributed Systems, and (E) Statistics

Skills

Work Experience: TensorFlow, Torch, Python, C++, Objective-C/++, Linux, (some) SQL
Taught: C, C++, x86 Assembly, Java
Coursework: Verilog, Java, Javascript & D3, Assembly

Accomplishments

2016 – 2019 Member of UW Lavin Entrepreneurship Program
2016, 2017 University of Washington DubHacks Hackathon
2016 – 2017 Member of University of Washington “Startup UW” Organization Executive Team
2011 – 2016 Personal YouTube channel full of technical tutorials (over 1M views so far)