

Akshay Chalana

(425) 892-5977 • ac2zoom@uw.edu • <https://github.com/Ac2zoom> • <https://linkedin.com/in/akshaychalana>

EDUCATION

University of Washington

Sept. 2015 – June 2019 (Expected)

- Major: Computer Science (Data Science) and Mathematics (Philosophy Track)
- Relevant Coursework: Hardware/Software Interface, Neural Engineering, Systems Programming, Data Structures & Parallelism, Discrete Math, Probability, Data Management, Machine Learning, Algorithms, Real Analysis Complex Analysis, In Progress: Data Visualization, Linear Optimization, Modern Algebra

TECHNICAL SKILLS/LANGUAGES

- Web: MEAN (MongoDB, Express, Angular.js, Node.js) stack, Python (Flask), React.js, Java, PHP, SQL (Postgres)
- Mobile: React Native, Android Native (Java)
- Machine Learning: Python (Apache Spark, sk-learn, Tensorflow [Keras - CNNs, RNNs, Autoencoders]), R
- Other: Racket (dialect of Lisp), C, C++, x86 Assembly

RELEVANT EXPERIENCE

Facebook (Menlo Park, CA)

Software Engineering Intern

June 2018 – September 2018

JumpStart (San Francisco, CA)

Machine Learning Consultant

September 2017 – Present

- Leading development of scoring, ranking, and feedback backend services in Python with PostgreSQL

Doppler Labs (San Francisco, CA)

Machine Learning Intern

June 2017 – September 2017

- Improved filter suggestion based on client usage of buds
- Developed Tensorflow (Keras) models in Python for Audio Scene Classification

University of Washington (Seattle, WA)

Research Assistant

Dec. 2016 – June 2017

- Work on SIMPL: Partial Evaluation of Inference Algorithms (Bayes Networks) in Racket
 - Implementation of various models and algorithms using this framework

Tesla (Palo Alto, CA)

Software Engineering Intern

June 2016 – September 2016

- Developed Features of PHP Hardware Test Data Visualization/Analysis App
- Wrote firmware (C++) for STM32 and PIC-based Test Boards
- Developed Python interfaces for test equipment and vehicle components for monitoring and test

UWashington Hyperloop (Seattle, WA)

Control Systems Engineer

August 2015 – Present

- Embedded Software Development for SpaceX Hyperloop Pod Development Competition
- Developing a real-time sensor data telemetry system using Microchip PIC18F4685 (programmed in C), an RS-232 interface with provided SpaceX network, and a custom GUI for data visualization (written in Python).

GiveSafe (Seattle, WA)

Software Development Intern

December 2015 – June 2016

- Built features of native Merchant Android application for interacting with beacon-holders (homeless individuals)

PERSONAL PROJECTS

Bodyguard (Top 30 @ PennApps Jan. 2016)

Android app for automatic emergency notification to friends/family/emergency services through voice commands. (built backend and various components of frontend)

Playsmid (DubHacks 2016)

Online videogame platform (Node.js app) for Synthetic Biology education and simulation (built backend and some frontend functionality).