

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 (In Progress), Algorithms (In Progress)

TECHNICAL SKILLS/LANGUAGES

- Web: HTML/Pug; CSS; JavaScript (including jQuery, Angular.js, React.js, React Native/Phonegap/Ionic); Node.js; Databases (NoSQL: MongoDB, DynamoDB; SQL: MySQL; HDFS) – Proficient with all
- Data Analytics: Apache Spark Python API (Competent); R (Competent)
- General: Java (Proficient); Python (Proficient), C/C++ (Proficient), Racket (Competent)

RELEVANT EXPERIENCE

Doppler Labs (San Francisco, CA)

Machine Learning Intern

June 2017 – September 2017

- Product Development Team
- Development of Tensorflow models for environmental context recognition from various signal inputs

University of Washington (Seattle, WA)

Research Assistant

Dec. 2016 – Present

- 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)

Intern

June 2016 – September 2016

- Hardware Development Test & Analysis Team
- Developed Features of PHP Hardware Test Data Visualization/Analysis App
- Wrote firmware 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

- Helped to create Merchant Android application for interacting with beacon-holders (homeless individuals)

PERSONAL PROJECTS

GiftGenie.io (CodeDay Spring 2015)

<https://github.com/Ac2zoom/giftgenie.io>

Gift suggestion web app (Node.js) based on Facebook likes & Amazon/Goodreads APIs (built entire backend)

Bodyguard (Top 30 @ PennApps Jan. 2016)

<http://www.devpost.com/software/pennapps11am>

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

Playsmid (DubHacks 2016)

<http://devpost.com/software/playsmid>

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

Waitr.ai (AngelHack Silicon Valley 2016)

<http://www.hackathon.io/waitr-ai>

Amazon Alexa Skill human replacement for drive-thru restaurants (built frontend and NLP parsing for backend).