

# Akshay Chalana

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## EDUCATION

**University of Washington (Cumulative GPA: 3.40)** Sept. 2015 – June 2019 (Expected)

- Major: Computer Science (Data Science) and Mathematics (Intended – Philosophy Track)
- Relevant Coursework: The Hardware/Software Interface, Neural Engineering, Systems Programming, Data Structures & Parallelism (In Progress)

## TECHNICAL SKILLS/LANGUAGES

- Web: HTML/Pug; CSS; JavaScript (including jQuery, Angular.js, React.js); Node.js; NoSQL databases (MongoDB, DynamoDB, Cassandra) – Proficient with all
- Data Analytics: Apache Spark Python API (Competent); R (Competent)
- Other: Java (Proficient); Python with NumPy, VPython, some Scikit-Learn (Proficient), C/C++ (Proficient)

## RELEVANT EXPERIENCE

**Tesla (Palo Alto, CA)** Intern June 2016 – Sept. 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 Aug. 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).

**MoneySense (Bothell, WA)** Founder & Developer Jul. 2011 – Present

- Designing Personal Finance education curriculum for High School students with advice from teachers, professors, and industry contacts
- Building/Maintaining online HTML5/CSS3/JS videogame with MEN backend (MongoDB, Express.js, Node.js)
- Received grant from Social Venture Partners as a high school finalist at Social Innovation Fast Pitch

**GiveSafe (Seattle, WA)** Software Development Intern December 2015 – June 2016

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

**HackingEDU (San Mateo, CA)** Full-Stack Web Developer Sept. 2015 – April 2016

- Created/Maintained Node.js/MLab API on Heroku for serving data to mobile event apps and HackingEDU website

## 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).