Akshay Chalana

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EDUCATION

University of Washington (Cumulative GPA: 3.40)   Sept. 2015 – June 2019 (Expected)
- Major: Computer Science (Freshman Direct Admit) and Mathematics (Intended – Philosophy Track)
- Relevant Coursework: The Hardware/Software Interface (Winter), Neural Engineering (Winter), Systems Programming (Spring), Data Structures & Parallelism (Autumn)

TECHNICAL SKILLS/LANGUAGES

- Full-Stack Web Development: HTML/Jade; 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)
- Algorithms/Desktop Programs: Java (Proficient); Python with NumPy, VPython, some Scikit-Learn (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)

Compatigram (DubHacks 2015)
(http://devpost.com/software/dubhacks2015-qucx65)
Deep-Learning Node.js web app to determine compatibility of individuals based on contents of Instagram posts using Clarifai (built backend, including comparison algorithms).

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).