

# Akshay Chalana

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## EDUCATION

### University of Washington (Cumulative GPA: 3.78)

Sept. 2015 – June 2019 (Expected)

- Major: Computer Science (Freshman Direct Admit) and Mathematics (Expected)
- Relevant Coursework: Computer Programming II (Autumn), The Hardware/Software Interface (Winter), Data Abstractions (Spring), Foundations of Computing I (Spring)

### Eastside Preparatory School (High School Cumulative GPA: 3.98)

Sept. 2008 – June 2015

## 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

### Undergraduate Research Assistant University of Washington CSE Department January 2016 – Present

- Developing algorithmic un-refactoring system for Defects4J automatic debugging project in PLSE Group with Dr. Michael Ernst.

### Software Development Intern

GiveSafe

December 2015 – Present

- Created Merchant Android application for interacting with beacon-holders (homeless individuals)

### Systems Engineer

UW Hyperloop Team

Aug. 2015 – Present

- Embedded Software Development for SpaceX Hyperloop Pod Development Competition
- Worked with Intel Edison board through C++ API to gather, communicate, and visualize pod metrics (velocity, attitude, pressure, etc.) and adjust pod components remotely

### Founder & Developer

MoneySense

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

### Full-Stack Web Developer

HackingEDU

Sept. 2015 – Present

- Created/Maintain Node.js/MongoLab API on Heroku for serving information to mobile event apps
- Maintain primary HackingEDU website

### Vice President of Organization

TEDxYouth@EastsidePrep 2014

Apr. 2014 – Nov. 14

- Built website, facilitated communication with speakers, sponsors, and various providers/facilities, Helped develop "Evolution of Interaction" Theme for this TEDxYouthDay 2014 Event on Nov. 16, 2014

## 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

### Bodyguard (PennApps Jan. 2016)

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

Android app for automatic emergency notification to friends/family/emergency services through voice commands.