Ayush Saraf

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Education

University of Washington, Seattle   **June, 2018**
Computer Science, GPA: 3.83
Relevant Coursework: Hardware/Software Interface, Computer Programming I & II, Relational Database Management System, Matrix Algebra, Calculus, Differential Equations, and Design Thinking.

Skills

Experienced in Java, JavaScript, Git, and HTML/CSS. **Familiar** with PHP, MongoDB, SQL, and Octave.
Frameworks & Libraries: Node/Express.js, React.js, d3.js, Bootstrap, Passport.js, and Socket.io
3rd Party APIs: Stripe, Twillio, Shopify, Facebook, Mojio, and Leap Motion

Experience

Co-Founder & Lead Developer, Aced   **April 2015 – Present**
- Co-founded an on demand student-to-student in-person tutoring service on UW Seattle Campus. Acquired over 90 users within a week of beta release.
- Developed the entire backend with login via Facebook, payments via Stripe, and messaging via Twilio using a REST API written in Node/Express & MongoDB.
- Worked in a team and performed UX testing to get feedback on improving the flow of the app.

Software Engineering Intern, CleverTap   **July – September, 2015**
- Developed a Shopify plugin that automatically integrate users' CleverTap account with their Shopify store via OAuth.
- Allowed CleverTap to quickly expand their business to 100K+ Shopify store owners without any technical skills.
- Wrote documentation on integrating app install attribution using 3rd party services like adjust.io & AppsFlyer.

Activities

Software Developer, UW EcoCAR3   **September 2015 – Present**
- Aim is to develop an open source UI infotainment platform for vehicles that communicates with vehicle hardware.
- Working on Advanced driver assistance systems team to integrate the infotainment with the external environment.

Lavin Entrepreneurship Program & Startup UW   **April 2015 – Present**
- Executive committee member at the two biggest entrepreneurship organizations involving 400+ students on-campus.
- Work with both teams to organize various events empowering entrepreneurship among students on campus.

Side Projects

Multiplayer Round Table Hockey
A multiplayer circular table Air Hockey game built within 9 hours using HTML Canvas and Socket.io. Used for vector algebra for the collision detection. Supports mouse and Leap Motion as controllers.

Launch
A collection of all the startups and side projects made at University of Washington Seattle. Worked on the backend API and currently working on a graph like data visualization for representing connections between projects & makers.

CSE14x Grade Analysis
Used d3.js to build various visualizations to identify patterns in the scores achieved by the students on homework, exams, and the overall grades in the class.

Hackathon Projects

DubHacks '15: Lyteup.co *(best use of personalization by Disney)*
Lyteup.co is a social network which allows friends, family and coworkers to express themselves in emotions rather than words. Designed the database in PostgreSQL and wrote the backend in Node/Express.

BMW Hack The Drive: Hawk
Hawk, a parental monitoring web app that allows you to check-in on your teen by tracking history of your car's driving usage. Developed the backend in Node/Express using Mojio API built into the car.

DubHacks '14: Rhythmic Ride *(best use of the Mojio API.)*
Android app that uses music to make you a safe driver. Uses the Moj.io API connected to car to adjust music based on driving factors, currently speed.