

# Ayush Saraf

Phone: (206) 393-2864 E-Mail: [ayush29f@cs.washington.edu](mailto:ayush29f@cs.washington.edu) Website: <http://ayush.xyz/>

Github: <http://github.com/ayush29feb> LinkedIn: <http://linkedin.com/in/ayush29feb>

## Education

**University of Washington, Seattle**

**Expected June, 2018**

**Computer Science, GPA: 3.70**

**Relevant Coursework:** Computer Programming I & II, Systems Programming, Hardware/Software Interface, Data Visualization, Relational Database Management System, Discrete Mathematics, Matrix Algebra, Calculus, Differential Equations, CAD Modelling (Solidworks), Physics (Honors): Mechanics and E&M, Microeconomics.

## Skills

**Experienced** in Java, JavaScript, Git, HTML/CSS, Solidworks. **Familiar** with C/C++, C#, MongoDB, SQL, Octave, Unity

**Frameworks & Libraries:** Node/Express.js, React.js, vega-lite, d3.js, Bootstrap, Passport.js, Socket.io

**3<sup>rd</sup> Party APIs:** Stripe, Twilio, Shopify, Facebook, Mojio, Leap Motion, Hololens, Project Tango

## Experience

**Software Engineering Intern, Microsoft**

**June – September, 2016**

- Worked as a full stack developer at Microsoft Dynamics CRM Mobile team to optimize the metadata sync process.
- Designed & implemented both privilege based & on demand sync optimization techniques along with the appropriate UX/UI changes which reduced the app-load time by up to 65% and sync time by up to 20%.

**Undergrad Research Assistant, Vega-Lite (IDL)**

**January – June, 2016**

- Worked on open-source data visualization grammar called vega-lite at the UW Seattle's Interactive Data Lab
- Implemented support for statistical graphics in vega-lite by extending visualization grammar to support ranged marks and composite marks in addition to primitive marks.

**Software Developer 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 Shopify store owners with little or no technical skills.
- With a single click, the store is connected to their CleverTap and starts receiving all the essential e-commerce events.

**Co-Founder & Developer, Aced**

**April – December, 2015**

- Launched a Beta version of an on demand student to student tutoring service on UW Campus.
- Developed the entire backend with login via Facebook, payments via Stripe, and messaging via Twilio using a RESTful API written in Node/Express with MongoDB.
- Acquired over 90 users within a week, and did user testing to get feedback on improving the UX of the app.

## Extracurricular

**UW EcoCAR3: ADAS**

**September 2016 – Present**

- Working with the UW EcoCAR as a member of Advanced Driver Assistance Systems team to compete in the national advanced vehicle technology competition (EcoCAR) hosted by the U.S. Department of Energy.
- Goal is to prototype innovate driver assistance solutions using computer vision and machine learning techniques.

**DubHacks**

**May 2016 – Present**

- Working with a team for motivated individuals from diverse backgrounds to run the biggest Hackathon in the PNW.
- Leading an open source project focusing on streamlining the various logistics for organizing Hackathons.

**Lavin Entrepreneurship Program & Startup UW**

**April 2015 – Present**

- Executive committee member at the two largest entrepreneurship organizations 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 supporting mouse and Leap Motion as input devices.

**Hackestimate**

A web tool for Hackathons to estimate and optimize travel budget for flying in huge group of people. It uses data visualization tools to help making better decisions.

## Hackathon Projects

**Microsoft //oneweek '16: Holoball**

A Hololens application for basketball training that uses holographic guide curves demonstrating the perfect shot.

**DubHacks '14: Rhythmic Ride** (*best use of the Mojio API*)

An Android app that uses the Mojio connected car platform to smoothly crossfade between songs based on driving behaviors, currently speed.