# AMY SHAN

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## EDUCATION

**University of California, Berkeley** *Expected: May 2019*
Bachelor of Science (B.S.) Electrical Engineering and Computer Science
Certificate in Design Innovation

**Mira Costa High School** *2011 – 2015*
Valedictorian

## RELEVANT COURSEWORK

Algorithms (CS 170), Databases (CS 186), UI Design (CS 160), Discrete Math and Probability (CS 70), Data Structures (CS 61B), Computer Architecture (CS 61C), Designing Information Devices and Systems (EE 16AB), Linear Algebra (Math 54), Multivariable Calculus (Math 53)

## TECHNICAL EXPERIENCE

**The Climate Corporation** **Seattle, WA**
*Software Engineering Intern* *May 2017 – August 2017*
- Built visualization tool using ReactJS and Redux for aggregating ingestion status tracking of over 67k data uploads
- Currently deployed and in use across various teams, saving collectively ~7 hours/week in time spent debugging pipeline failures
- Created new API routes in Clojure backend to provide more flexibility in querying data uploads from DynamoDB table

**Blueprint, Technology for Non-Profits** **Berkeley, CA**
*Project Developer | Client: Lava Mae (https://github.com/calblueprint/lavamae)* *January 2017 – present*
- Developed web application that connects volunteers with resources to start local branches, using ReactJS and Ruby on Rails
- Primarily developed user dashboard and volunteer matching algorithm to connect local branches with available volunteers

**CITRIS Social Apps Lab** **Berkeley, CA**
*Undergraduate Researcher* *September 2016 – December 2016*
- Developed user flows for UI/UX of AppCivist, a software platform that streamlines democratic assembly and collective action
- Built flexible front-end platform on Xamarin using C# that cross-compiles onto Android, iOS, and web-based devices

**Boeing Company** **El Segundo, CA**
*Satellite Development Intern* *June 2014 – August 2014*
- Designed a satellite component to tolerate higher temperatures in collaboration with the satellite antenna project manager
- 3D-printed CAD renderings of satellite component prototypes and side projects developed using PTC Creo Parametric

## CREATIVE EXPERIENCE

**The Berkeley Group** **Berkeley, CA**
*Marketing Chair | Consultant | Client: Building Opportunities for Self-Sufficiency (BOSS)* *February 2016 – December 2016*
- Achieved record-breaking 9% increase in application count as marketing chair through introduction of new marketing strategies
- Developed sustainable business model for a proposed B-Corp that reintegrates formerly incarcerated individuals into society
- Projected costs for initial 5 years and developed training, sponsorship, and marketing strategies to optimize employment and profit

**Innovative Design** **Berkeley, CA**
*Graphic Designer* *February 2016 – May 2016*
- Created eye-catching logos used by on-campus organizations such as the Transfer Student Center and Cal Solar Car Team

## PROJECTS

**SIXT33N Car** *(EE 16B)* *Fall 2016*
- Built a voice-controlled car that filters audio signals through a microphone and uses k-means clustering to understand commands
- Implemented a closed-loop feedback control algorithm to stabilize car wheels using least-squares regression

**Bear Maps** *(CS 61B)* *Spring 2016*
- Implemented a JavaEE backend server that uses a Quad Tree to render a map of Berkeley that can be zoomed in and out
- Achieved routing for shortest path between two points designated by user through using the A* algorithm

**Snapchat Geofilters** *(Personal Project)* *Winter 2015, Spring 2016*
- Designed two geofilters for Snapchat using Adobe Illustrator that were both approved and currently live on the app

## SKILLS

**Languages:** Python; Java; Javascript; Ruby; Clojure; C; HTML; CSS   **Frameworks:** ReactJS; Redux; Ruby on Rails
**Creative:** Adobe Illustrator; Adobe Photoshop; Fine Arts