

AMY SHAN

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EDUCATION

University of California, Berkeley

Bachelor of Science (B.S.) Electrical Engineering and Computer Science

Expected: May 2019

Mira Costa High School

Valedictorian

2011 – 2015

RELEVANT COURSEWORK

Computer Programs (CS 61A)

Multivariable Calculus (Math 53)

Discrete Mathematics and Probability Theory (CS 70)

Data Structures (CS 61B)

Linear Algebra and Differential Equations (Math 54)

Physics for Engineers (Physics 7A)

Machine Structures (CS 61C)

Designing Information Devices and Systems (EE 16AB)

Principles of Business (UGBA 10)

TECHNICAL EXPERIENCE

Blueprint, Technology for Non-Profits

Project Developer

Berkeley, CA

January 2017 - present

- Client: Lava Mae, a San Francisco based non-profit that provides mobile showers and hygiene stations to the homeless
- Using Rails, React and PostgreSQL to develop an interactive map and forum to organize volunteers, discussions, and logistics

CITRIS Invention Lab

Undergraduate Researcher

Berkeley, CA

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-compile onto Android, iOS, and web-based devices
- Created a minimum viable product to demo for the city of Vallejo and test in their participatory budgeting meetings

Boeing Company

Satellite Development Intern

El Segundo, CA

June 2014 – August 2014

- Collaborated with the satellite antenna project manager in developing a satellite component to tolerate higher temperatures
 - Participated in weekly meetings with satellite development team to track progress in assembling and deploying a satellite
 - 3D printed CAD renderings of satellite component prototypes and side projects developed using PTC Creo Parametric
 - Trained in thermodynamics, composites, image processing, and 3D printing techniques with expert mentors in each field
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CREATIVE EXPERIENCE

The Berkeley Group

Marketing Chair

Berkeley, CA

July 2016 - present

- Achieved a record-breaking 9% increase in application count through the implementation of new marketing strategies
- Optimized social media marketing to engage with over 1.9k viewers and reach underrepresented applicant demographics

Consultant | Building Opportunities for Self-Sufficiency (BOSS)

February 2016 – December 2016

- 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

Graphic Designer

Berkeley, CA

February 2016 – May 2016

- Created eye-catching logos used by on-campus organizations such as the Transfer Student Center and Cal Solar Car Team
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PROJECTS

SIXT33N Car (EE 16B)

Fall 2016

- Built a voice controlled car that receives audio signal through a microphone, filters it, and uses PCA to map the audio to commands
- Wrote Arduino code to implement a closed-loop control algorithm for car wheels using least-squares regression

Bear Maps (CS 61B)

Spring 2016

- Implemented a Java backend server that uses a Quad Tree to rasterize 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
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SKILLS

Technical: Java; Python; C; HTML; CSS; Javascript; Ruby on Rails; React; PostgreSQL

Creative: Adobe Illustrator; Adobe Photoshop; Fine Arts

Languages: English (native); Mandarin (fluent); Spanish (conversational)