Ashley Chu

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ABOUT

Hello! I am a freshman studying electrical engineering and computer science at UC Berkeley who likes to make things happen.

EDUCATION

Aug 2019 - May 2023 **University of California, Berkeley**

B.S., Electrical Engineering & Computer Science

Related Coursework: Structure and Interpretation of Computer Systems, Data Structures, Designing Information Devices and Systems I & II

Activities: Business Careers in Entertainment, SWE, AWE, CS Kickstart, Codeology, EnableTech

2015 - 2019 **Alameda High School**

GPA: 4.40/4.0 **Activities**: Science Club President, Robotics Club Founder/Captain, Varsity Soccer, DECA VP

HONORS & AWARDS

- **UC Berkeley Fiat Lux Scholarship** – 4-year scholarship awarded to 100 freshmen who embody resilience and carry unique life experiences
- **Amazon Future Engineer Scholar 2019** - One of 100 chosen from 2,000+ applicants for leadership in diversifying tech industry and coding background
- **NCWIT National HM & Bay Area Affiliate 2018 & 2019** - Recognized for aspirations and experiences in technology
- **Facebook F8 Scholar 2018 & 2019** - Awarded full scholarship to attend Facebook's F8 Conference
- **ESA Scholarship 2019** – Awarded to 30 promising undergraduates pursuing interests in computer science and game development
- **EF Global Citizen Scholarship & Summit Intern 2018** - One of 15 chosen from 650+ to travel free of charge to Europe. Collaborated with Disney legend Glen Keane and addressed computer science education to 2,000 attendees

SKILLS

Technical
Python, Java, HTML, CSS, Javascript

Frameworks/Libraries
JQuery, Ruby on Rails, Python NLTK

Design
Photoshop, Illustrator, Sketch, iMovie

CURRENT ROLES & EXPERIENCES

June 2020 **Amazon – Incoming AWS SDE Intern**

Jan 2020 - April 2020 **UC Berkeley – CS 61A Academic Intern**
- Assist students in OOP, recursion, higher-order functions, and lists
- Regularly work with 25 students each week

Dec 2017 - Present **She STEMS – Founder and Executive Director**
- Established national non-profit teaching 200+ girls to feel confident and capable through technology and computer science education
- Assembled team of 10 high school students and facilitated 15+ programs
- Fundraised $15,000+ with support from Disney, NCWIT, and Raspberry Pi

June 2018 - July 2019 **Kode With Klossy – Instructor's Assistant**
- Instructed 45 girls about web development and software engineering fundamentals
- Utilized project-based learning with JS, HTML, CSS, and A-Frame
- Built lesson plans, icebreakers, and introduced speakers

June 2018 - Aug 2018 **San Jose State University – Research Intern**
- Developed Python parsing tools with overlay on PYNQ Xilinix hardware board
- Assisted project to introduce high school students to computer science by exploring benefits of Jupyter Notebooks on FPGAs

Jan 2018 - June 2019 **GirlCon – National/Sponsorship Director**
- Implemented one-day conference for 250 girls in Chicago to demonstrate intersection of STEM with overlapping industries
- Leveraged corporate partnerships to fundraise $5,000+
- Designed marketing material on Canva and Illustrator

Oct 2016 - July 2019 **Chabot Space & Science Center – Elite Galaxy Explorer**
- Developed interactive floor demos on environmental sustatainability
- introduced science concepts to visitors for 380+ hours

PROJECTS

Apps:

She-Quality (http://bit.ly/2krXYgq)
- VR/web-app displaying daily experiences of women within certain cultures
- presented to Gloria Steinem and Karlie Kloss

Believe (http://bit.ly/2lZoVIV)
- Created automated camera and email system to alert "close friends"
- Android app to prevent and spread awareness about sexual assault
- awarded "best mobile app" by Raspberry Pi Foundation

Chabot: Explore the Galaxy (http://bit.ly/2SMTlfe)
- Android game on Google Play Store built for immersive STEM education
- Sponsored by Chabot Space & Science Center

Luna App (http://lunaapp.netlify.com)
- Web-app period tracker educating youth about menstruation
- Worked on system log-in element and user inputs
- Implemented Google Calendar API

Hardware:

Sound-Reacting Lightning Cloud
- Developed sound-reacting cloud with an Arduino Uno, LED strip, and microphone