Maddie Zug

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Experience

Creative Associates International, Washington DC | *Development Lab Intern*   **Summer 2018**
- Worked on a tech-focused team within Creative, an international development company
- Produced written report and presentations on best practices for using technology to address disability-inclusive education in low and middle income countries
- Prototyped teacher coaching app to improve teachers' retention of training information

The Mountain Institute, Sikkim, India | *Software Product Intern*   **Fall 2017**
- Managed ecotourism website project, facilitating negotiations between government, NGOs, and private web development company over 1 month internship
- Interviewed users to inform re-design of the ecotourism website in HTML, CSS, and Bootstrap

Harvey Mudd College, Claremont CA | *Research Assistant*   **Summer 2017**
- Surveyed interdisciplinary CS curricula at 50 schools to understand landscape of CS education
- Wrote technical tutorials for interdisciplinary topics to encourage exploration across disciplines
- Produced paper and presented poster at SIGCSE (national CS education conference)

WeddingWire, Chevy Chase MD | *Software Engineering Intern*   **Summer 2016**
- Wrote Swift on agile team of iOS developers for the Wedding Planner app serving thousands
- Communicated with product managers, designers, QA engineers in development process

Digital Management, Inc., Bethesda MD | *Software Engineering Intern*   **Summer 2015**
- Independently developed iOS app to collect data for the census
- Managed my own iterative design and development process

Diamond Mind, Inc., Potomac MD | *Software Engineering Intern*   **Summer 2014**
- Independently prototyped iOS app to facilitate school donation transactions
- Collaborated across departments to design and develop project concept

Education

Pomona College, Claremont CA | Bachelors of Arts in Computer Science   **Class of 2019**

Head Teaching Assistant, Fundamentals of CS   **Spring 2016 – Present**
- Manage team of up to 8 TAs for 90-student course
- As a mentor, break down and explain technical topics to help students learn

Computer Science Department Liaison   **Fall 2018**
- Organize department events to promote community and inclusivity
- Interface with faculty, staff, student leaders, and students

School for International Training, Jaipur India | Sustainable Development   **Fall 2017**
- Explored technology use and women's empowerment through workshops and research

Thomas Jefferson HS for Science and Technology, Alexandria VA   **Class of 2015**

Relevant Coursework

Pomona College: Database Systems, Programming Languages, Computer Systems, System Security
Harvey Mudd College: Computer Engineering, Microprocessors, Social Justice and Equity in STEM

Skills

Experienced: Python, Swift, Java, Arduino, Git
Proficient: HTML, CSS, C, R, JIRA