

Emily Pedersen

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Education

UC Berkeley Fall '18 - Spring '19
Candidate for M.S. in Computer Science with an emphasis in HCI

Stanford University Summer '18
Expected Intensive Studies Certificate in Technology & Innovation

UC Berkeley Fall '14 - Spring '18
B.A. in Computer Science
B.A. in Cognitive Science
Technology & Entrepreneurship certificate
Human-Centered Design certificate

Awards
Dean's Honors Fall '14

Coursework

UI Design & Development
Data Science
Software Engineering
Computer Security
Efficient Algorithms
Artificial Intelligence

Skills

Programming
Python : Java : Android : C : C#
Web Development
JavaScript/D3 : HTML5 : CSS3
Visual Design
Illustrator : Sketch : Figma

Industry Experience

Mozilla Summer 2017
Software Engineering Intern
◦ Developed web automation scripts for the Normandy Control Shield UI to aid continuous integration as part of the process improvement initiative.

Microsoft Summer 2016
Explorer Software Engineering and Program Manager Intern
◦ [SWE] Designed & developed the "Footprint Manager" website, allowing MS partnered Wi-Fi providers to upload CSV files of hotspot data (a footprint).
◦ [PM] Led & coordinated Footprint Manager design & development phases.

Research Experience

Professor Marti Hearst Lab @ UC Berkeley Spring 2017 : Present
Research Assistant
◦ Redesign the 'word cloud' into a 'word zone'. 'Word zones' categorize topics into spatial groups and use whitespace to distinguish between categories.
◦ Create experiment and conduct user studies to evaluate our design.

Teaching Experience

UI Design & Development @ UC Berkeley Fall 2017 : Present
Undergraduate Student Instructor TA
◦ Lead a weekly discussion section of 30 students.
◦ Hold office hours, and grade students' projects and exams.

Data Structures @ UC Berkeley Fall 2016 : Spring 2017
Undergraduate Student Tutor
◦ Led a weekly discussion section of 10 students.
◦ Assisted during office hours, and graded students' projects and exams.

Projects

Software Engineering - SaaS App Ruby & HTML/CSS
◦ Using the Agile development cycle, built a user-friendly educational application for a UC Berkeley Optometry Professor and his students.
◦ Won 'Most Technically Challenging' award by Google & Facebook judges.

UI Design - Android & Alexa Skill App Java & JavaScript
◦ Designed and implemented an Android and Alexa skill application, named 'Acting Bud', aimed to help actors practice their lines for a play.

Computer Security - Secure File Sharing Python
◦ Implemented a scheme to securely store files on a malicious server & used merkle trees to efficiently store data on the server.
◦ Used symmetric & asymmetric encryption, and MAC cryptographic tools