LAURA CHEN

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EDUCATION

SWARTHMORE COLLEGE, B.A. in Computer Science and Economics, Swarthmore, PA, Class of 2019
- *Honors and Scholarships:* Toge and Mitsu Fujihira Scholarship, Mark L. Osterweil '94 Memorial Scholarship
- GPA: 4.0, STEM GPA: 4.0
- Relevant coursework: Introduction to Computer Science, Introduction to Computer Systems

LEADERSHIP AND PROJECTS

FEMME HACKS, University of Pennsylvania, Philadelphia, PA   February 2016
- Built Chrome extension that allows users to reflect on content of a webpage and save their reflections.
- Learned new languages/platforms (Firebase, HTML, CSS, and Javascript) on the spot to create a project.

PROJECTS FOR INTRODUCTION TO COMPUTER SYSTEMS,   Spring 2016
Swarthmore College, Philadelphia, PA
- Used Logisim to build an 8-function Arithmetic Logic Unit.
- Used pointers and dynamic memory allocation to write program that plays Conway's Game of Life.
- Used threads and synchronization (mutex locks, barriers) to parallelize Game of Life program.
- Parsed command line arguments, created/reaped processes, handled signals to write Unix shell program.
- Wrote original implementations of core functions in C string library.
- Converted C code to equivalent IA32 assembly instructions.
- Used GDB and Valgrind to debug C memory bugs.

EDITOR-IN-CHIEF, the *Smoke Signal*,   September 2012 – June 2015
Mission San Jose High School, Fremont, CA
- Organized staff of 50 to produce thought-provoking 20-page issue monthly as Editor-in-Chief.
- Spearheaded live coverage of a 24-hour event, social media initiatives, digital storytelling project.

NATIONAL HISTORY DAY, Fremont, CA   September 2011 – June 2014
- Created websites to present historical research projects. Three-time county champion and one-time state champion.

WORK EXPERIENCE

SUSTAINABILITY EXTERN,   January 2016
University of California Office of the President, Oakland, California
- Shadowed UC Sustainability Director for a week in planning UC's 2025 Carbon Neutrality Initiative.
- Collected and analyzed solar energy data, created infographics, learned about strategic planning

CHEF (Paid), Paces Café, Swarthmore, PA   September 2015 – December 2016
- Implement weekly menu, design unique menu items, improvise with ingredients to adapt to situations.

CULINARY INTERN, Casa Sangapilla Inn, Lamas, Peru   June 2015 – August 2015
- Shadowed a cook in the Peruvian High Amazon. Currently working on a cookbook for Peruvian recipes.

RELATED SKILLS

COMPUTER SKILLS |
- ■■■■■ Python, C, Git, Github, Valgrind, Lightroom, Wordpress, iMovie, Word, Powerpoint
- ■■■■□ Logisim, IA32, GDB, HTML, CSS
- ■■■□□ Javascript, Firebase

LANGUAGES | English and Mandarin (Fluent), Spanish (Proficient), Russian (Beginner)