

HELEN QU

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EDUCATION

UNIVERSITY OF PENNSYLVANIA

2013 – 2017

candidate for b.s. in engineering, computer science

- *RELEVANT COURSEWORK:* Machine Learning, Operating Systems, Automata / Computability, Computer Architecture, Math Foundations in CS, Algorithms, Intro to OCaml / Data Structures, Engineering Statistics, Partial Diff. Eq., MATLAB, Linear Algebra, Mechanics, Electricity & Magnetism

WORK EXPERIENCE

FACEBOOK internet.org

May – August, 2016

software engineering intern | menlo park, ca

- Created an end-to-end product-based dogfooding tool for all Internet.org products
- Eliminates the need for proprietary / obscure knowledge to test and demo Internet.org products

YAHOO, INC. growth + emerging products

May – August, 2015

software engineering intern | san francisco, ca

- Helped develop Yahoo's newest emerging product, an Android launcher
- Implemented efficient data querying via reactive programming, notification badges for app folders, live wallpaper previews, full bleed status bar / soft buttons

UNIVERSITY OF PENNSYLVANIA genomics

Sept 2015 – Dec 2015

research intern | philadelphia, pa

- Using machine learning to predict protein folding and secondary / tertiary structure given a sequence of amino acids with Dr. Junhyong Kim

POINT.IO

Jan – May, 2015

junior developer | philadelphia, pa

- As UI/UX lead, designed and implemented UI of node-webkit installer for Cakewalk audio mixing software

NOTABLE HACKATHON PROJECTS

HACKNY

Spring 2016

toast printer, 2nd place

- <http://devpost.com/software/toast-printer>
- Automated device that toasts any image onto a piece of bread
- Wrote Python code to process and scale input image & pass resulting data to Arduino

HACKPRINCETON

Fall 2014

voicebox, top 20 hack

- <http://devpost.com/software/voicebox>
- Chrome extension to voice-activate Gmail
- Wrote the speech synthesis & Gmail UI automation components in Javascript

ACTIVITIES

PENNAPPS

March 2014 – Jan 2016

head of sponsorship

- Raised \$400k in corporate sponsorship to run a 2,000-person student hackathon, the largest in the world
- Led a 7-person sponsorship committee

DINING PHILOSOPHERS

Jan – May, 2015

community leader

- Started a 500-person community of Penn students interested in hackathons

PENNAPPS FELLOWS

Jan – May, 2015

web designer/developer & program organizer

- Designed and implemented <http://pennappsfellows.com>, raised sponsorship, wrote marketing materials, represented at outreach events

SKILLS

Java, Android, Python, OCaml, C, HTML, CSS, JS, MATLAB, reactive programming