

Education

Columbia University, School of Engineering and Applied Science

- BS in Computer Science / Intelligent Systems, Minor in Applied Math
- Cumulative GPA: 3.6, Major GPA: 3.7

New York, NY
 Expected May
 2018

Programming Languages

- Highly proficient: Python, Elm
- Proficient: Java, Javascript, Ocaml, HTML
- Basic usage: C, C++, SQL, Matlab

Publications & Awards

Delphix Technology Scholarship for Women

more

- Winner of Delphix 2015 Annual Technology Scholarship for Women

Menlo Park, CA
 December 2015

PySTEMM: Executable Concept Modeling for K-12 Learning

Sole author

more

- Proceedings of the 6th European Conference on Python in Science (EuroSciPy 2013)
- Independently developed Python-based concept modeling tool to assist STEM learning

Brussels,
 Belgium
 August 2013

Columbia Ebola Design Challenge Finalist

Sole Developer

- Finalist (fourth and final round) of a four-month long hackathon addressing the Ebola outbreak

New York, NY
 Sept - Dec 2014

Work Experience

Google

Engineering Practicum Intern

- Worked with Core and Cloud team on streamlined collaborative version control and testing system
- Developed desktop and browser app for the system from scratch in Elm (FP) and Javascript

New York, NY
 Summer 2016

Columbia University, Computation in Python: COMS1006

Teaching Assistant

- Weekly office-hours, guide recitations, design problem sets, under Dr. Adam Cannon

New York, NY
 Fall 2015 -
 present
 New York, NY
 Spring 2016

Columbia University, Discrete Mathematics: COMS3203

Teaching Assistant

- Weekly office hours, debug program submissions, and guide recitations under Dr. Salieb-Aouissi

Enthought Scientific Computing

Software summer intern

- Developed interactive data visualizer for Canopy data-analysis platform (Matplotlib, Pandas, Seaborn)
- Worked in large live GitHub repository on individual feature branch and opened bug fix branches

Austin, TX
 Summer 2015

Project Experience

EboHub: Ebola Disease Surveillance System

Sole Developer

repo

demo

more

- Led diverse team of 5, built system for mobile healthcare workers doing disease surveillance
- Used Python/Postgresql web service with 2-way SMS-based mobile and web interfaces
- Columbia Ebola Design Challenge finalist, partnered with There Is No Limit Foundation in Guinea

New York, NY
 2014 - 2015

Assembly Language Simulator in Elm

Sole Developer

repo

demo

- A single-page Elm application for an interactive Assembly Language Simulator

New York, NY
 Fall 2015

Executable domain models

Personal Project

- Model and simulate course concepts using Elm to solidify understanding

New York, NY
 Fall 2015

Adaptive 'Smart' Stroller

Lead Developer

repo

- Built stroller-attachable baby monitor with 2-way SMS communication with parent
- Arduino for sensors, Python/Raspberry-Pi for communication, Python for SMS and web server
- Used serial port (Arduino-to-Pi), HTTP (Pi-to-server), and SMS (server-to-phones)

New York, NY
 2014 - 2015

PySTEMM: K-12 STEM Education Tool

Sole Developer

repo

- Created and developed Python-based concept modeling tool
- Presented work at 6th Annual International SciPy Conference in Brussels, Belgium

Austin, TX
 2012 - 2014

MIT/SeaGrant Ocean Engineering Experience

Project and CS Lead

- Led 4-student team, built submersible ROV to monitor power plant effluents in river
- Designed, built and tested with minimal guidance, on time and within budget

Cambridge, MA
 Summer 2012

Activities

- Girls who Code: Teaching Assistant 2015-present
- Society of Women Engineers: Family member and house member 2014-present
- Women in Computer Science: Member 2014-present
- Application Development Initiative (ADI): Member 2014-present
- Engineers Without Borders, Uganda Chapter: Board Financial Chair, Engineering team 2014-2015

Personal Traits

- Love Computing • Critical Thinking • Self-starter • Teamwork • Communication • Hard Working