Education

Columbia University, School of Engineering and Applied Science

New York, NY Expected May

Sept - Dec 2014

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BS in Computer Science / Intelligent Systems, Minor in Applied Math

2018

• Cumulative GPA: 3.6, Major GPA: 3.7

Programming Languages

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

Publications & Awards

Menlo Park, CA **Delphix Technology Scholarship for Women** more December 2015 • Winner of Delphix 2015 Annual Technology Scholarship for Women PySTEMM: Executable Concept Modeling for K-12 Learning Brussels, Sole author more Belgium • Proceedings of the 6th European Conference on Python in Science (EuroSciPy 2013) August 2013 Independently developed Python-based concept modeling tool to assist STEM learning New York, NY **Columbia Ebola Design Challenge Finalist** Sole Developer

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

Worked in large live GitHub repository on individual feature branch and opened bug fix branches

Work Experience

Google	Engineering Practicum Intern		New York, NY
	d with Core and Cloud team on streamlined collaborative version ped desktop and browser app for the system from scratch in Elicates.	0 ,	Summer 2016
Columbia	University, Computation in Python: COMS1006	Teaching Assistant	New York, NY
 Weekly office-hours, guide recitations, design problem sets, under Dr. Adam Cannon 			Fall 2015 - present
Columbia	University, Discrete Mathematics: COMS3203	Teaching Assistant	New York, NY
 Weekly office hours, debug program submissions, and guide recitations under Dr. Salleb-Aouissi 			Spring 2016
Enthough	nt Scientific Computing Software summer intern		Austin, TX
 Develo 	ped interactive data visualizer for Canopy data-analysis platform	n (MatPlotLib, Pandas, Seaborn)	Summer 2015

Project Experience

 EboHub: Ebola Disease Surveillance System Sole Developer repo demo more Led diverse team of 5, conceived and built system for mobile healthcare workers doing disease surveillance Used Python/Postgres 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 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 				
 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 ToolSole Developer repo

Austin, TX 2012 - 2014

Created and developed Python-based concept modeling tool

• Presented work at 6th Annual International SciPy Conference in Brussels, Belgium

MIT/SeaGrant Ocean Engineering Experience Project and CS Lead

Cambridge, MA Summer 2012

- 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

Activities

Girls who Code: Teaching Assistant, Mentor, pushing Elm in the curriculum	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 • Love Wrestling with Problems • Self-starter • Teamwork • Communication • Hard Working