Education

Columbia University, School of Engineering and Applied Science

New York, NY Expected May

Sept - Dec 2014

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

cted May 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

• 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

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

Work Experience

New York, NY		ern	Engineering Practicum Inte	Google
Summer 2016	.		d with Core and Cloud team on	
	m (FP) and Javascript	or the system from scratch in El	pped desktop and browser app f	 Develo
New York, NY	Teaching Assistant	in Python: COMS1006	a University, Computation	Columbia
Fall 2015 - 2016	Adam Cannon	design problem sets, under Dr.	y office-hours, guide recitations,	 Weekly
New York, NY	Teaching Assistant	hematics: COMS3203	a University, Discrete Mat	Columbia
Spring 2016	ns under Dr. Salleb-Aouissi	ıbmissions, and guide recitatior	y office hours, debug program si	 Weekly
Austin, TX		Software summer intern	ht Scientific Computing	Enthough
Summer 2015	n (MatPlotLib, Pandas, Seaborn)	or Canopy data-analysis platforr	pped interactive data visualizer f	 Develo

Project Experience

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EboHub: Ebola Disease Surveillance System Sole Developer repo demo more	New York, NY 2014 - 2015
• Led diverse team of 5, conceived and built system for mobile healthcare workers doing disease surveillance	2014 - 2013
Used Python/Postgres web service with 2-way SMS-based mobile and web interfaces Only on the Theory Challenger (Carling and Carling a	
 Columbia Ebola Design Challenge finalist, partnered with There Is No Limit Foundation in Guinea 	
Assembly Language Simulator in Elm Sole Developer demo	New York, NY
A single-page Elm application for an interactive Assembly Language Simulator	Fall 2015
Executable domain models Personal Project	New York, NY
Model and simulate course concepts using Elm to solidify understanding	Fall 2015
Adaptive 'Smart' Stroller Lead Developer repo	New York, NY
Built stroller-attachable baby monitor with 2-way SMS communication with parent	2014 - 2015
 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) 	

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