JOANNA SIMWINGA

CONTACT

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EDUCATION

Brown University
Providence, RI 02912
A.B. Computer Science, A.B Africana Studies
Anticipated Graduation May 2018

LANGUAGES

Java
Python
C
HTML/CSS
Javascript
C++
DrRacket

EXPERIENCE

SE Intern
Qualtrics
May-Aug 2017

Interned on the Data Platforms Quality Engineering team at Qualtrics. Designed and developed a Data Obfuscation microservice that transformed sensitive customer data into new obfuscated data that could be used to test production systems. Worked with stakeholders from various teams to design the service so that the data's shape and testing value were preserved. **Java and Spring Boot.**

SE Intern
Open Data Durban
April-May 2017

Interned at Open Data Durban, an NPO Civic Technology Lab in Durban, South Africa. Built a widget that provided community members with pertinent government and healthcare information. Designed and developed the website for the #AskDurban campaign, and promoted the initiative at the Digitize Africa conference. **Python and Flask.**

Teaching Assistant
Brown CS Dept.
2015 - Present

Teaching Assistant for The Digital World and Algorithms & Data Structures. Wrote and graded assignments. Held weekly office hours and led weekly sections teaching skills and concepts such as Python, HTML/CSS, Photoshop search algorithms, tree traversal, and dynamic programming.

Coordinator
Google IgniteCS
2015-2016

Led a 12 student coding club at Classical High School in Providence. Planned curriculum, recruited mentors, and taught the students how to code at meetings.

Coordinator
The Artemis Project
Feb 2015-Mar 2016

Coordinated a 5-week computer science summer program and a 2-semester coding club for 20 9th grade young women in high school. Designed the program's curriculum, taught students how to code in Python, and developed the program's website.

COURSEWORK

Objecct Oriented Programming - Java
Algorithms&Data Structures - Java/Python
Systems - C
Designing User Interfaces
Probability and Computing - MATLAB
Computational Linear Algebra - Python

Ongoing Courses:
Deep Learning - Python
Designing Programming Languages

PROJECTS

Open Data Durban Widgets
Built the Medicine Prices widget using Flask and redesigned the ODD widget suite using HTML and SASS.
widgets.opendata.durban/medicine_prices

Data Obfuscation Tool
Built a Data Obfuscation microservice for Qualtrics using Java and Spring Boot. Supports 59 languages and performs irreversible transformation of sensitive customer information.

LEADERSHIP

Mosaic+
Founding Member, Branding Team Chair, Transition Program Facilitator

Brown WiCS
Mentorship Coordinator

Google Women in CS Retention Summit 2016
Participant and Panelist