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## Education

### HARVARD UNIVERSITY

AB in Computer Science

Cambridge, MA

May 2017

Relevant Coursework: Politics of Personal Data, Privacy and Technology, Cyberpolitics, Data Structures and Algorithms, Networks, Programming Languages, Linear Algebra and Real Analysis

## Tech Skills

**Programming:** Python, C, Scala, OCaml, Bash, HTML

**Operating Systems:** Windows, Macintosh, Android, iOS

## Experience

### HARVARD SCHOOL OF ENGINEERING AND APPLIED SCIENCES

Cambridge, MA

#### Research Experience for Undergraduates (REU) Researcher

June – August 2016

- Researched loss of utility of a dataset when anonymized using differential privacy. Analysis of dataset and statistical tests conducted with Python.
- Updated Professor Latanya Sweeney's theDataMap project documenting flows of personal data

### TRUSTLAYERS

Cambridge, MA

#### Software Engineer and Policy Consultant

September 2014 – April 2015

- Created new API for core data-use protection product in Scala language
- Coordinated new functionality with front-end engineer for API compatibility
- Developed patent application and developed full documentation for new programming language
- Aided CEO in market research to determine growth potential, and worked in tandem with the marketing team to update website and respond to web analytics

### FEDERAL TRADE COMMISSION

Cambridge, MA

#### Fellow in Technology and Data Governance

June – August 2014

- Inspected security practices for 110 iOS and Android apps with man-in-the-middle software
- Investigated online price discrimination and privacy vulnerabilities in a social networking site's API
- Worked directly with CTO Latanya Sweeney to define direction of FTC's tech research
- Contributed to research presented at the FTC's Big Data conference. Presented to FTC technology panel.

### DIGITAL LITERACY PROJECT

Cambridge, MA

#### Teacher

January – May 2014

Taught weekly lesson on basic coding concepts to middle school students using Scratch and processing.js

## Publications

### MEDIUM

<https://medium.com/@roselisker/d088a9c80240>

#### “Illuminating the Dark Web: searching for geotags in darknet markets”

September 2016

Study on geolocation metadata prevalence in darknet markets. 1.6TB archive analyzed using Python. Covered by international media including *The Washington Post* and *The Sunday Times*. Featured by Medium and viewed >25,000 times.

### TECHNOLOGY SCIENCE

<http://jots.pub/a/2015103001>

#### “Who Knows What About Me? A Survey of Behind the Scenes

October 2015

#### Personal Data Sharing to Third Parties by Mobile Apps”

Mobile app survey on sensitive data handling and sharing to third-party domains; based on FTC research

## Skills & Interests

**Language:** Native fluency in Spanish

**Interests:** Music (guitar, piano, and recording), Politics, Hiking, Photography, Soccer, and the November Project