

# Nicholas Hobbs

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**Skills:** Python, R, SQL, Postgres, Data Visualization, Statistics, Mathematics, Linux, Networking, Cybersecurity, L<sup>A</sup>T<sub>E</sub>X

## Experience

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### OpenLattice

*Data Scientist*

**Redwood City, CA**

*October 2019–March 2020*

- Created python tools and developed a new workflow to greatly improve efficiency of the process of integrating client data from various formats into OpenLattice's graph database
- Worked on a pre-processing pipeline and dashboards for visualizing data collected in Chronicle, OpenLattice's mobile phone usage project in association with major universities
- Contributed to OpenLattice's API and python package, olpy
- Created python tools for generating fake data for various demonstrations with complex inner relationships and relations between fake datasets. Tools included functions to subset data probabilistically, generate trends and distributions within subsets of columns, and generate realistic temporal trends in data

### Freelance

*Data Scientist*

**San Francisco, CA**

*July 2018–October 2019*

- Created tools for data annotation at Nightfall AI, a Data Loss Prevention startup focused on applying advanced NLP models such as BERT to the problem of preventing employees from inadvertently sharing sensitive information or violating compliance and regulations on platforms like Slack and Github
- Made a program to extract structured data from large databases of purchased ingredients. Used a regex to efficiently solve 85% of rows, and then a more general but less efficient logic to cover 98% of rows. Subsequently parsed ingredient description using digrams and trie structure to create look-ahead for input and extract most common n-grams
- Designed relational databases for use in court and transformed large volumes of transcripts into rows of data using macros and VBA with Microsoft Word, Excel, and Access. Created interactive notebook in Binder for experts to filter data and analyze patterns in dataset
- Developed techniques to process 130,000 geotagged ground level cell phone images and determine carrying capacity of grazing land in Kenya

### Sorenson Impact Center

*Data Science Intern*

**Salt Lake City, UT**

*January–August 2017*

- Performed statistical analysis and created data visualizations using R's tidyverse, Shiny, and CausalImpact
- Put in charge of an independent project for the University of Utah's First Star Academy and invited to present findings to several groups of First Star Employees, Donors, and University Administrators

### Utah State Senate

*Senate Intern, Campaign Manager, Co-Host of The Dabakis Factor*

**Salt Lake City, UT**

*November 2012–May 2014*

- Created web resources, created and distributed campaign materials, and organized political events for Senator Jim Dabakis
- Assisted with preparation, organization, and communication with constituents during 2014 Utah Legislative Session
- Spoke weekly on an AM talk radio program with co-hosts Jim Dabakis and Donna Weinholtz
- Conversated with a diverse group of guests from all different backgrounds on current events and local politics

### Democratic National Committee

*National Delegate*

**Charlotte, NC**

*November 2012*

- Represented Utah at the 2012 Democratic National Convention in Charlotte, NC
- Elected as the second youngest delegate to the convention nationally
- Attended and spoke at many county conventions and other local party events across Utah

## Education

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### Evolve Security Academy

*Cybersecurity Bootcamp*

**Chicago, Illinois**

*February–June 2018*

- Immersive cybersecurity training focused on security fundamentals, networking, penetration testing, Linux, and implementation of enterprise security programs
- Worked on every stage of creating a security program for a large non-profit, from penetration testing to communicating with client
- Passed Security+ and ESCP certifications

### University of Utah

*Mathematics and Statistics*

**Salt Lake City, Utah**

*August 2012–May 2017*

- Relevant Coursework: Statistical Inference, Cryptography, Game Theory, Differential Equations, Number Theory, Analysis, Statistical Software Packages
- Studied Probability, Applied Statistics, Linear Algebra, and Basic Mandarin on exchange program in Spring 2014 at Hong Kong University of Science and Technology
- Completed Nankai University Intermediate Intensive Chinese Language Program in Summer 2014