REBECCA LYNCH

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EXPERIENCE

Duo Security (a part of Cisco Systems)   **Remote**

Data Scientist: Oct. 2019 - Present
- *Skills: Python (twisted, pandas, matplotlib), SQL, data cleaning, R, AWS, Ansible*
- Contributor on ML pipeline used in detection of fraudulent authentications.
- Compiled analytics for annual publication detailing usage of Duo's service, including analysis of 500+ million authentications and over 24 million customer devices.
- Consult frequently with marketing and PR teams to answer questions about customer data. Often communicating technical information across multiple teams including non-technical audiences.
- Contributed in implementation of revamped pipeline for data extraction, de-identification, and storage for all customer data. System is an ETL pipeline deployed largely using AWS Glue to extract and de-identify customer data in AWS S3 and RDS.

Software Engineer: May 2018 - Oct. 2019
- *Skills: Python, Go, Docker, AWS*
- Developer on Duo Network Gateway, a reverse proxy server that allows users to securely access on-prem applications.
- Developed features in Python and Go, including SSH traffic proxying. Implemented robust test suites.
- Mentored software engineering interns, created consistent onboarding documentation and procedures.

University of Michigan College of Engineering   **Ann Arbor, MI**

Teaching Assistant, Introduction to Computer Security: 2017 - 2018
- Lead solo weekly discussion of roughly 50 students. Topics include cryptography, web based attacks, network attacks, application security, and computer forensics.

EDUCATION

University of Illinois at Urbana-Champaign, *2019 - Present*

Intended Master of Science in Computer Science - Data Science & Statistics Track
- Coursework: Advanced Bayesian Modeling, Applied Machine Learning, Data Visualization, Database Systems, Distributed Systems, Applied Statistics

University of Michigan, *2014 - 2018*

***Bachelor of Science in Computer Science**, with Minors in Physics, Music*
- Relevant Coursework: Computer Security, Computer Organization, Data Structures and Algorithms, Intro to Statistics & Data Analysis, Operating Systems, Web Systems, User Interface & Experience
- Executive Director, Michigan Pops Orchestra

CONFERENCES & PUBLICATIONS

BlackHat USA, *2019*

["Woke Hiring Won't Save Us: An Actionable Approach to Diversity and Hiring"](#)
- Data-driven talk providing analysis of gender diversity in tech, and proven approaches for improved diversity and employee retention

National Health Physics Conference, *2016*

["Radiation Weather Station: Development of a Continuous Monitoring System for the Collection, Analysis, and Display of Environmental Radiation Data."](#)
- Implemented system to extract and display data from a dozen weather and radiation monitoring machines with the goal of understanding interactions of background radiation and weather.
- Publication: **Lynch, R.**, Smith, T., Jacobs, M., Frank, S., Kearfott, K., "Radiation Weather Station: Development of a Continuous Monitoring System for the Collection, Analysis, and Display of Environmental Radiation Data." in *Health Physics Journal*, November 2018.