OLABODE OLUDAYO ANISE II

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PERSONAL SUMMARY

- Data Scientist with rigorous experience working at each phase of the analysis process from data extraction through model evaluation
- Confident with ambiguous problem-solving that requires cross-functional coordination and collaboration
- Passionate about people leadership, mentorship and the professional development of junior-colleagues

WORK EXPERIENCE

FIGMA San Francisco, California

Data Scientist *January 2022 – Present*

- Designed and analyzed various experiments related to user conversion, sharing, and activation in collaboration with Product Design and Product Management.
- Led the migration of 705 SQL queries from an internally-developed data transform system to dbt resulting in a 47% reduction in runtime. Responsibilities included developing a project plan, formulating a framework to validate data correctness, and delegating work to two other Data Scientists.
- Implemented (in Python) automated alerting to inform experiment owners of potential issues in their experiments by detecting sample ratio mismatches and flicker. Changed experiment configuration awareness paradigm from push to pull.
- Performed research on sequential testing and discovered that Figma could safely end experiments 20% sooner on average while not increasing false negative or false positive rates.

GOOGLE (CHROME) San Francisco, California

Software Engineer *February 2021 – January 2022*

- Implemented (in C++) and launched download deep scanning for Enhanced Safe Browsing and ChromeOS users. This launch extended the protection offered to approximately 100k users to over 75 million users.
- Designed and implemented an experiment to test the effect of different user experiences on click-through rates for malware associated with stealing session cookies. Collaborated with UX writer to determine the appropriate strings and worked with the malware operations team to define the optimal thresholds to surface the new UX.
- Integrated the open-source library MalDocA in Chromium to detect the presence of Office documents with macros on Linux and Windows.

DUO SECURITY Ann Arbor, Michigan

Senior Data Scientist *May 2020 – January 2021*

- Proposed and conducted a longitudinal user study of 104 participants on Amazon Mechanical Turk to understand user perceptions of the security and usability of WebAuthn. Co-presented preliminary findings from the research with former intern at the Who Are You?! Adventures in Authentication 2020 Workshop. Published final results at Symposium of Usable Privacy and Security (SOUPS) 2021.
- Served as an intern manager for a graduate intern for four months. Proposed a project for their internship, developed the interview criteria, created a 30-60-90 day plan, conducted weekly one-on-ones and provided technical guidance.
- Served as co-lead on a project to determine key performance indicators (KPIs) for Duo's engineering organization and to make said KPIs visible to various levels to the engineering senior leadership team and front-line managers. This work was part of an initiative to make the engineering organization more metric driven and drive behavior change by holding teams accounts to these metrics. Responsible for the data modeling and dashboard creation.

Data Scientist II *October 2018 – May 2020*

- Served as the project lead for a year-long project to implement a new extract, transform and load (ETL) process to extract data from Duo's production data stores and make the data available to the entire engineering department. Responsibilities included writing the initial project plan and subsequent quarterly OKRs, designing and architecting the process, implementing the solution, assigning tasks to three other engineers, and deploying the system to production. The new process reduced data staleness from 30 days to one day, improving its utility by Product Management, Site Reliability Engineering and Engineering leadership.
- Performed analysis of more than 20,000 Android Packages (APKs) leveraging open-source analysis tools and personally created tooling to understand the usage of Android SafetyNet and the potential prevalence of incorrect implementations of certificate-chain validation. Co-presented results and findings of this work along with my colleagues at Black Hat EU 2019.
- Mentored junior team member as they took on former responsibilities in performing external-focused data analysis. This involved reviewing their analyses, providing feedback and suggesting future research areas.

Data Scientist I *October 2017 – September 2018*

- Designed and implemented model testing and evaluation, metadata storage system assisting in the development of Duo's first use of advanced analytics in production. The system allowed members of the Data Science team to easily find out which models where being used per customer, how each model's performance during training and evaluation, and the characteristics of the data each model was trained on.
- Performed data analysis of Duo service data which consisted of approximately 500 million authentications and 10.7 million devices for Duo's annual 2018 Trusted Access Report which details trends that we are seeing in terms of device usage, update behavior and remote work. The 2018 report generated $3MM in pipeline for Duo's Sales team.

- Received Friend of Sales award for data analysis of customer authentication and device data that led to an upgrade worth an additional $1.6MM in total contract value.
- Conducted large-scale analysis of more than 3.1 million public Twitter accounts and 527 million tweets uncovering botnet of more than 10,000 accounts spreading a cryptocurrency scam. Co-presented results and findings at Black Hat USA 2018.
- Promoted to Data Science II for my contributions to the 2018 Duo's Trusted Access Report, research on multi-factor-authentication and work on Duo's first machine learning pipeline.

R&D Engineer *September 2016 – September 2017*

- Conducted a census-representative survey of 525 people to better understand how people use and perceive two-factor technologies. Authored report detailing the analysis and findings from said survey which has received mentions in mainstreams outlets, including CNET and Fortune as well as industry-specific publications such as Dark Reading.
- Designed and implemented feature extraction pipeline and enrichment process in Scala and Python using Spark and PySpark respectively. This work served as the foundation for the machine learning pipeline that is currently being used for Duo's first machine learning product Duo Trust Monitor.

Student Intern – paid position, 40-50 hours per week *May 2016 – August 2016*

- Designed and created a web application using Flask that generates reports which compare a customer's security posture to an average customer in their industry. The web application leverages de-identified data from our data warehouse and is currently used by Customer Success Manages and Account Executives during quarterly business reviews.
- Collaborated with the Product Design team to implement user-journey tracking to better understand user behavior when they were informed that their devices were out-of-date within the Duo Prompt.

Technical Skills

UX/UI: Wireframing (Balsamiq), Affinity Diagraming, Interactive Prototyping (Invision, Marvel), Prototype Design (Sketch)
Programming Languages: Python, Java, Scala, SQL
Tech and Frameworks: AWS (RDS, Glue, Lambda and Step Functions), Spark, Flask, Ansible
Data Science: Clustering, Regression Analysis, Survey Design, Model Evaluation

Volunteer Experience

Symposium on Usable Privacy and Security (SOUPS) 2021 Program Committee Member
USENIX Security 2021 Program Committee Member
USENIX Enigma 2021 Program Committee Member

Published Works and Talks

Reaves, B., Bowers, J., Gorski III, S. A., Anise, O., Bobhate, R., Cho, R., ... & Wright, B. (2016). * droid: Assessment and Evaluation of Android Application Analysis Tools. ACM Computing Surveys (CSUR), 49(3), 55

Anise, O., Lady, K (2017, November) State of the Auth Experiences and Perceptions of Multi-Factor Authentication

Wright, J., Anise, O (2018, August). Don't @ Me: Hunting Twitter Bots at Scale. Paper presented at Black Hat USA Las Vegas, Nevada.

Barclay, J., Anise, O., Mooney, Nick (2019, December). Chain of Fools: An Exploration of Certificate Chain Mishaps. Paper presented at Black Hat EU London, England.

Owens, K., Ur, B., Anise, O (2020, August). A Framework For Evaluating the Usability and Security of Smartphones as FIDO2 Roaming Authenticators. Proceedings of the Who Are You?! Adventures in Authentication 2020 Workshop (WAY). Online

Owens, K., Anise, O., Krauss, A., Ur, B., (2021 August) User Perceptions of the Usability and Security of Smartphones as FIDO2 Roaming Authenticators

Honors and Awards

NATIONAL GEM CONSORTIUM FELLOW April 2015 – July 2016
NATIONAL SCIENCE FOUNDATION HUMAN CENTERED COMPUTING S-STEM FELLOWSHIP 2015 – 2016
UNIVERSITY OF FLORIDA GRADUATE STUDENT FELLOWSHIP AWARD August 2015

Education

GEORGIA INSTITUE OF TECHNOLOGY, Online January 2018 –December 2019
Master of Science in Analytics *GPA- 3.75/4.0*

UNIVERSITY OF FLORIDA [INCOMPLETE], Gainesville, Florida August 2015 – July 2016
Doctorate of Philosophy in Human Centered Computing: Usable Security *GPA- 4.0/4.0*

AUBURN UNIVERSITY, Auburn, Alabama Graduated May 2015
Bachelor of Science in Computer Science with a minor in Spanish *GPA- 3.64/4.0*