

OLABODE OLUDAYO ANISE II

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WORK EXPERIENCE

FIGMA

San Francisco, California

Data Science Manager

February 2024 – Current

- Lead three teams (12 Data Scientists) that support Figma's AI and Infra organizations as well as a team that performs applied research (Core Data Science). Responsible for performance management, career progression, and roadmap development for each team member.
- Hired two external Staff Data Scientists and promoted two mid-level team members to Senior.
- Created new goal-setting process within the AI org to increase the rigor, transparency, and accountability to OKRs for each team.
- Serve as DRI for early career Data Science hiring. Responsible for determining the ideal profile of candidates, interview strategy, and collaborating with recruiting team on university outreach.
- Led and organized a team-wide Data Quality workstream which involved 40+ Data Scientists and resulted in an increase in test coverage for core models, archival of over 200+ models, the development of a data dictionary, and refactoring of 20 of Figma's most used tables.
- Designed and implemented an anomaly detection framework that is used to alert on all KPIs. Led to increased observability and accountability for metric owners.

Staff Data Scientist

January 2022 – February 2024

- Designed and analyzed dozens of 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.
- Performed research on sequential testing and found that Figma could safely end experiments 20% sooner on average while not increasing false negative or false positive rates.
- Introduced holdout groups to Figma's Growth organization to better understand the aggregate impact of Growth-related experiments on KPIs over the course of six months.
- Led the evaluation and integration of Statsig (an external experimentation platform) to replace Figma's homegrown experimentation framework. Responsible for all data related integrations, metrics layer design and implementation, methodology validation, and training of 40+ Data Scientists. Migration increased experimentation velocity by 30% YoY.
- Proposed and chartered Core Data a multidisciplinary team of Data Scientists and Data Engineers focused ML Enablement, Data Quality, and Experimentation
- Designed and implemented reverse ETL using Dagster to provide access to user analytics data within the product. This opened the door for creating more targeted user experiences related to product education and monetization.
- Led the design, analysis, and rollout of universal guardrail metrics for experimentation increasing observability into key metrics.
- Promoted to Tech-Lead/Manager for my leadership of the Core Data team and development of junior team members.

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 download protection originally offered to only 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 malicious macros within Office documents.

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. 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.
- Co-led project to determine KPIs for Duo's engineering organization and to make said KPIs visible to senior leaders 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

- Led a year-long project to implement a new ETL process to extract data from production data stores and make the data available to the entire engineering department. Responsibilities included designing and 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.
- 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 at [Black Hat EU 2019](#).
- Mentored junior team member as they took on former responsibilities in performing external-focused data analysis.

Data Scientist I

October 2017 – September 2018

- Designed and implemented model testing and evaluation metadata storage system. The system enabled Data Scientists to easily locate which models were being used per customer, each model's performance during training and evaluation, and the model's training data.
- 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 in device usage, update behavior and remote work. The 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 Scientist 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 understand the use and perception of two-factor technologies. Authored report detailing the findings which received mentions in mainstream 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 ML pipeline that powered Duo's first machine learning product Duo Trust Monitor.

TECHNICAL SKILLS

Programming Languages: Python, Java, Scala, SQL

Tech and Frameworks: AWS (RDS, Glue, Lambda and Step Functions), Spark, Flask, Ansible, Terraform

Data Science: Clustering, Regression Analysis, Survey Design, Model Evaluation, Experiment Design

VOLUNTEER EXPERIENCE

Symposium on Usable Privacy and Security (SOUPS) 2021 & 2022 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](#)

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY,

Master of Science in Analytics

UNIVERSITY OF FLORIDA [INCOMPLETE]

Doctorate of Philosophy in Human Centered Computing: Usable Security

Left to pursue a research role at Duo Security.

AUBURN UNIVERSITY

Bachelor of Science in Computer Science with a minor in Spanish