

CAITLYN CAGGIA

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WORK EXPERIENCE

SEAMLESS AI

JULY 2023 – JUNE 2024

Senior Data Engineer, Data Ops & Engineering, Atlanta, GA

June 2023 – June 2024

- Ingested, cleaned, and deduplicated >800 TB of data for identity resolution and sales lead generation
- Optimized and maintained >50 pipelines refreshed daily with AWS Glue, Spark, Python, and SQL
- Drove improvements in data reliability, efficiency, and quality with extensive automated testing and monitoring

PERATON

JANUARY 2021 – JULY 2023

Lead Data Engineer & Data Architect, Pandemic Center of Excellence (PACE), Atlanta, GA

June 2022 – July 2023

- Develop, optimize, and maintain data pipelines to detect fraud in the \$5T COVID-19 pandemic relief funding
- Modernize data architecture to use Databricks, Spark, and Python scripts for >15x runtime improvement
- Automate quality control checks to reduce error rate to <1% and manual review time from days to minutes

Principal Solutions Architect, Global Health and Financial Solutions, Atlanta, GA

January 2021 – May 2022

- Designed technical solutions for cloud-based AI/analytics capture and proposals totaling over \$1B in TPV
- Managed 6 engineers to prioritize tasking, provide mentorship, and guide career development

Lead Data Engineer & Scrum Master, High Volume Transaction Processing, Atlanta, GA **January 2021 – December 2021**

- Processed data for use in ML algorithms and visualizations in Databricks via MLOps using Python and Jupyter
- Initiated analysis of alternatives, vendor partnerships, MVP production environment, and prototyping
- Served as scrum master for team of 5 software engineers to facilitate Agile development methodologies

NORTHROP GRUMMAN CORPORATION

MAY 2017 – JANUARY 2021

Solutions Architect, Civil and Health, Atlanta, GA

June 2020 – January 2021

- Presented analytics solutions and AI capabilities to customers in live demos, rare oral RFIs, and white papers
- Automated sector-level financial reporting and forecasting dashboards using Python, Alteryx, and Power BI
- Led team of 4 developers by translating business objectives to assign and prioritize technical tasks

Model Based Systems Engineer (MBSE), H-1 Lead Technology Integrator, San Diego, CA

July 2019 – June 2020

- Created and updated 50+ models for navigation, comms, and electronic warfare systems in H-1 helicopters
- Earned formal customer recognition for leadership in authoring 4+ MBSE style guides for Agile hardware design

Systems Engineer, Communications Systems Research and Development, San Diego, CA

May 2017 – July 2019

- Conducted multifunction RF trade studies with automated data collection and ML-based genetic algorithms
- Generated 20+ analytical and descriptive radar models in MATLAB, Python, Rhapsody, and ModelCenter

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

M.S. in Electrical and Computer Engineering, Concentration in Electromagnetics

Class of 2019

B.S. in Electrical Engineering, BS/MS Accelerated Program, Highest Honors

Class of 2018

SKILLS

Programming Languages:

Python, Spark, SQL, MATLAB, C/C++, DAX, VHDL | Windows, macOS, Linux (Ubuntu, CLI)

Cloud Platforms:

Databricks (Delta Lake, MLflow), Azure (Synapse, Data Factory), AWS (cloud practitioner)

Modeling/Visualization:

PowerBI, Tableau, Alteryx, Cameo, Rhapsody, ModelCenter, Solidworks, AFSIM, AutoCAD

Collaboration Tools:

Azure DevOps, Rally, Jira, Git (GitHub, GitLab), Cameo Teamwork Cloud

Certificates:

Model Based Systems Engineering (California Institute of Technology, March 2020)