

CAITLYN CAGGIA

Atlanta, GA | US Citizen | Top Secret Clearance

www.caitlyncaggia.com | linkedin.com/in/caitlyn-caggia | github.com/caitlyncaggia

WORK EXPERIENCE

DARWILL

FEBRUARY 2025 – PRESENT

Senior Data Engineer, Data Science & Engineering, remote

- Migrate event-based trigger program from legacy systems to Databricks to streamline and simplify maintenance
- Define best practices for DE team, including process workflows, QC guidelines, BRD templates, and PR templates
- Build robust QA automation and testing framework for unit and integration tests with other development teams

CAITLYN CAGGIA, LLC

SEPTEMBER 2019 – JANUARY 2025

Technical Consultant, AI & Analytics, Atlanta, GA

- Provide expertise on data architecture, genAI/MLOps, optimization, automation, analytics, and cloud technology
- Perform technical deep dives for white papers, research reports, case studies, industry analysis, and proposals
- Bolster clients' SEO and digital presence with articles that bring emerging technologies to a conversational level

SEAMLESS AI

JULY 2023 – JUNE 2024

Senior Data Engineer, Data Ops & Engineering, remote

- Ingested, cleaned, and deduplicated >800 TB of data for identity resolution and sales lead generation
- Optimized and maintained >50 data pipelines refreshed daily with AWS Glue, Spark, Python, and SQL

PERATON

JANUARY 2021 – JULY 2023

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

June 2022 – July 2023

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

Principal Solutions Architect & Data Engineer, Health and Financial Solutions, remote

January 2021 – May 2022

- Designed technical solutions for cloud-based AI/analytics capture and proposals totaling over \$1B in TPV
- Processed data for use in ML algorithms and visualizations in Databricks via MLOps using Python and Jupyter
- Managed 6 software engineers to prioritize tasking, provide mentorship, and guide career development

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
- Led team of 4 developers to automate financial reporting and forecasting using Python and PowerBI

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

July 2019 – June 2020

- Created and updated 50+ models in Python, MATLAB, Cameo, and AutoCAD for 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

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 (Glue, CloudWatch)

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)