CAITLYN CAGGIA

Atlanta, GA | US Citizen | Top Secret Clearance
www.caitlyncaggia.com | linkedin.com/in/caitlyn-caggia | github.com/caitlyncaggia

WORK EXPERIENCE

CAITLYN CAGGIA, LLC   **SEPTEMBER 2019 – PRESENT**
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, Atlanta, GA
- 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
- 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*
- 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, 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
- 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 (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)