

CAITLYN CAGGIA

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

Collaboration Tools: Rally, Jira, Git, Cameo Teamwork Cloud, Phoenix Integration Analysis Server

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

WORK EXPERIENCE

Peraton

January 2021 – present

Pandemic Response Accountability Committee (PRAC), Atlanta, Georgia

June 2022 – present

Lead Data Engineer, Pandemic Center of Excellence (PACE) Program

- Develop, optimize, and maintain data pipelines to detect fraud in the \$5T COVID-19 pandemic relief funding
- Modernize data architecture to use Databricks Delta Lake 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
- Liaison between infrastructure, investigative, and data science teams to balance business and technical needs

Global Health and Financial Solutions Sector, Atlanta, Georgia

January 2021 – May 2022

Principal Solutions Architect, Campaigns and Solutions

- Drove new civil and health sector growth as a solutions architect focusing on CMS projects and programs
- Architected 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 Databricks Developer, High Volume Transaction Processing Internal Research and Development

- Wrote Python scripts to process data ingest, cleaning, and processing for use in ML algorithms and visualizations
- Initiated analysis of alternatives, vendor partnerships, MVP production environment, and prototyping
- Served as scrum master for team of 5 software engineers to support Agile software development methodologies

Northrop Grumman Corporation

May 2017 – January 2021

Civil and Health Business Unit, Defense Systems, Atlanta, Georgia

June 2020 – January 2021

Solutions Architect, Future Technical Leaders rotational program

- Presented analytics solutions and AI capabilities to customers in live demos, rare oral RFIs, and white papers
- Developed technical solutions for civil and health customers, including the DOJ, TSA, CDC, and JOMIS

Data Analyst, Defense Systems Sector financial reporting

- Automated sector-level financial forecasting dashboards using Python, Alteryx, and Power BI as lead developer
- Led team of 4 developers by translating business objectives to assign and prioritize technical tasks

H-1 Lead Technology Integrator, Mission Systems, San Diego, California

July 2019 – June 2020

Model Based Systems Engineer (MBSE), Future Technical Leaders rotational program

- 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

Communications Systems, Mission Systems, San Diego, California and Baltimore, Maryland

May 2017 – July 2019

Systems Engineer, Research and Development

- 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