

# ROBERT REANEY

Security Clearance: **Secret** ◇ roberttreaney@gmail.com ◇ github.com/roberttreaney

A lifelong learner passionate about MLOps and the development of reliable ML software. Experienced at digesting stakeholder needs to develop actionable solutions that are efficient and effective.

## EXPERIENCE

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### **Abt Global**

*Data Scientist*

*Dec 2023 - Present*

*Remote, NC*

End-to-end data science solutions in support of the following government agencies: CDC, SSA.

### **IntelliBridge**

*Data Engineer/Scientist*

*May 2023 - Dec 2023*

*Remote, NC*

Responsible for hardening and expanding company data offering to support LLM applications.

- Established templates for reusable end-to-end machine learning solutions.
- Created MLOps test framework for NLP agents and LLMs to increase customer confidence.
- Advocated for graph database technology and deployed end-to-end graph exploration tool after convincing C-suite executives for financial support.
- Gained responsibility over the division interns within 2 months of employment to guide projects involving LangChain, Hugging Face, and ML model deployment.
- Managed Jira board and served as tech lead for 3 products being developed by the department.
- Championed infrastructure as code and automated testing for data science department.
- Managed data backend for company's AI/ML commercial solution using Databricks, Github actions, AWS, TerraForm, and spark.
- Reduced response to customer information requests from 1 month to 1 day with automated data pipelines, data modeling, and change data capture.

### **Anyar, Inc.**

*Data Science Department Manager*

*March 2022 - May 2023*

*Remote, FL*

Responsible for leading data science efforts company-wide, finding new work for the department, architecting technical solutions, and coordinating with adjacent departments. Direct report to the CTO and represented the company to key stakeholders and customers.

- Led diverse team of teams across multiple, simultaneous data science projects.
- Consulted on technical and architectural decisions for over 20 million dollars of program efforts.
- Led business development for company's flagship software and drove requirements for software development team.
- Project manager for Graph Neural Network multi-year research efforts with additional funding awards totaling over 1 million to research fast-running surrogates for finite element methods.
- Handled recruiting and hiring for data science department.
- Sold dashboards-as-a-service to multiple AirForce divisions by showcasing prototypes, advertising, and delivering a reliable end-to-end solution.

### **Anyar, Inc.**

*Data Scientist*

*October 2020 - March 2022*

*Remote, FL*

Modeling, simulation, and analysis (MS&A) support for numerous defense related research and development organizations. Served as the sole Subject Matter Expert for data science and machine learning across numerous projects totaling over \$20,000,000 in funding.

- Established company's machine learning research department and grew projects into continued funding and usable libraries.
- Created ML test suite to benchmark novel algorithm development.
- Deployed standardized ML training across a variety of hardware including High Performance Computing systems using Docker and Singularity containers.
- Automated analysis pipelines using python, gitlab, Docker, and cloud computing.
- Coordinated scientists, engineers, analysts, and developers to translate design objectives from stakeholders into actionable analysis plans and outcomes.

- Developed and delivered presentations and training for audiences of varying technical expertise.

**University of Central Florida**

*Graduate Teaching Assistant*

STA 2023 (Statistics I) & STA 4163 (Statistics 2)

*August 2018 - May 2020*

*Orlando, FL*

**Lake Brantley High School**

*Math Teacher*

Introduced public school to individualized learning programs for at risk students.

*August 2017 - May 2018*

*Altamonte Springs, FL*

## EDUCATION

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**University of Central Florida**

Statistical Computing M.S. - Data Mining, GPA: 4.0

Machine learning and statistical theory including unsupervised/supervised learning, Neural Networks, RNNs, CNNs, NLP, Timeseries Forecasting, and Stochastic Processes.

*August 2018 - May 2020*

**University of Central Florida**

Mathematics B.S., GPA: 3.4

*January 2015 - August 2017*

## PROFESSIONAL EXPOSURE

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**Languages:** Python, Bash, Powershell, R, Julia, SAS, JMP/JSL

**Environments:** Linux, AWS, Databricks

**DevOps:** Git, Docker, Singularity, GitHub Actions, Gitlab CI/CD, TerraForm

**Back-End:** Flask, FastAPI, Nginx, SSL/TLS

**Libraries:** PyTorch, Tensorflow, PySpark, pandas, Airflow, Prefect, pytest, NetworkX, HuggingFace

**Databases:** PostgreSQL, MongoDB, DynamoDB, Neo4j, Milvus

**AWS Stack:** S3, EC2, SNS, ECR, Lambda, IAM, Route 53

**Documentation:** Jupyter, Sphinx,  $\text{\LaTeX}$ , Pluto, Confluence, Jira

**Front-End:** Plotly/Dash, Streamlit, Matplotlib, NeoDash

## RECOGNITION

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2022 19th SimTim. Las Vegas, NV. "Large-scale Parallelized Simulation".

2022 90th MORS Symposium. Quantico, VA. "Large-scale Parallelized Simulation".

2022 Digital Engineering Summit. Niceville, FL. "Large-scale Parallelized Simulation".

2021 Technical Interchange Meeting. Raleigh, NC.

2021 18th SimTim. Las Vegas, NV. "Distributed Scientific Workflows with SOFA"

2021 89th MORS Symposium. Remote. "Applied UQ for V&V of Simulation Systems"

2020 American Board for Certification of Teacher Excellence - Mathematics Certification

2009 3rd Degree Black Belt, Chun-Kuk-Do