

KALEB BOYD

Buford, Georgia

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EDUCATION

Georgia Institute of Technology

August 2024

Master of Science: Analytics

Focus in Computational Data Analytics (Reinforcement Learning, High-Dimensional Data Analysis)

University of Georgia

May 2018

Bachelor of Science: Civil Engineering

EXPERIENCE

Secured Transportation Services

October 2024 - Present

Data Scientist

Buford, GA

- Developing a custom in-house Large Language Model (LLM) tailored for company needs.
- Utilizing local LLMs fine-tuned with Low-Rank Adaptation (LoRA) and In-Context Learning techniques, including Retrieval-Augmented Generation (RAG).
- Enhancing company capabilities by leveraging generative AI to improve deliverable speed and accuracy.
- Implemented automation engineering solutions, reducing processing time of certain tasks from 5 hours to minutes.

United States Navy

May 2023 - September 2024

Cyber Threat Intelligence Analyst

Pensacola, FL

- Served as a Cyber Threat Intelligence Analyst at Naval Information Operations Command - Pensacola, responsible for implementing defensive and offensive cyberspace mission tasking.
- Collected and processed intelligence to generate products satisfying cyberspace intelligence requirements and essential elements of information.
- Developed target packages supporting cyberspace operations and disseminated cyber intelligence information through briefings, written reports, and messages.
- Deployed to Key Infrastructure and Critical Resource DODIN sites in response to intelligence on potential Advanced Persistent Threat (APT) cyber activity, providing targeted defense and safeguarding these critical networks.
- Utilized the HELK stack (Hunting, Elasticsearch, Logstash, Kibana) to identify and remediate potential malicious cyber activity on numerous Department of Defense (DoD) Networks.
- Applied advanced Artificial Intelligence techniques, including Natural Language Processing and Machine Learning, to enhance network traffic anomaly detection and strengthen cybersecurity measures within the Department of Defense. These efforts led to a 90% reduction in processing time, significantly improving defense against malicious actors in the cyber domain.

United States Navy

October 2018 - May 2023

GEOINT Analyst

Washington, D.C.

- Attached to Fleet Intelligence Detachment, D.C. (FID DC) as a Geospatial Intelligence Analyst.
- Utilized imagery analysis to create enhanced imagery products adhering to National Geospatial Intelligence (NGA) standards through analyzing overhead and aerial imagery developed by photographic and electronic means.
- Deployed aboard the USS CARL VINSON CVN-70 (July 2021 - Early 2022) supporting Carrier Strike Group One (CSG-1) and multi-national operations afloat.
- Developed data analysis tools using Python that provide a faster and more robust way to filter, organize, and display data collected daily via overhead sensors.
- Utilized QGIS software with Python to display geospatial trend analysis of the maritime and air domain for the area of responsibility of CSG-1 resulting in an unprecedented level of awareness that is now being adopted fleet-wide.

- Created and maintained an SQL database fusing data from four on-board intelligence watch floors to establish better cohesion and communication of data across the intelligence enterprise.
- Assisted in the development of data engineering and data analysis tool sets for the Navy's Project Overmatch program.
- Served as the first tactical afloat data scientist, pioneering the integration of data science on deployment to enhance decision-making and operational productivity. This role catalyzed the 'Data Science at Sea' initiative, now being adopted fleet-wide to drive data-informed strategies across naval operations.
- Contributed to the Data Science Working Group for Naval Information Forces, advocating for improved data literacy and specialized training to support tactical data scientists in operational settings.
- Served as departmental Leading Petty Officer for Training directly responsible for managing a team of 7 sailors who provided qualification and pre-deployment training to over 100 sailors.

CERTIFICATIONS

CompTIA	Cybersecurity Analyst (CySA+)
National Geospatial-Intelligence Agency	GEOINT Professional Certification - Fundamental, Imagery Analysis
Department of Defense	Intelligence Fundamentals Professional Certification

TECHNICAL STRENGTHS

Computer Languages	Python, R, JavaScript, Bash, Rust
Data Analysis / Visualization	Pandas, Numpy, Matplotlib, Plotly, Dash, Seaborn, ggplot, D3
Data Engineering	MySQL, PostgreSQL, Redis, Databricks, Elasticsearch, Logstash, Kibana
Machine Learning Frameworks	Tensorflow, Keras, Scikit-learn, PyTorch
Back-end Web Development	Django, Flask, FastAPI, Actix-Web, Docker, Docker Compose
Front-end Web Development	HTML, CSS, React, Vue