Anthony Shea

Profile Summary

- Data Scientist and Backend Engineer with multi-int fusion expertise.
- Strong foundation in Physics, Mathematics, and Systems Engineering, with proficiency in data analysis, visualization, and reporting.
- Effective communicator skilled at translating complex data into actionable insights for informed decision-making.

Contact Details

✉ agshea25@gmail.com

📞 757 270 7613

📍 Denver, Colorado

Github: /Anthony-Shea

Linkedin: /anthony-shea-2bb89bb4

Personal Website: www.Anthonyshea.dev

Personal Information

Citizenship: USA
Clearance: TS/SCI and CI Poly
Languages: English, Russian

Skills

- Languages: SQL, Python, TypeScript, Go, LaTeX
- ML: PyTorch, TensorFlow/Keras, OpenCV, Scikit-learn
- Databases: Elasticsearch, MySQL, MongoDB
- DevOps: Git/GitLab, Docker, Logstash, Vim
- Imagery Analysis: PI, SAR, IR, HSI, FMV, Photogrammetry

Experience

Data Scientist at Torch Technologies

Jan 2025 – Aug 2025

- Deployed CNN with 92% accuracy, processed 10Gb/day; <1 min latency
- Created 6 data pipelines; streamed data via TCP; processed for database
- Web scraped ephemeris and quaternion data; created footprints
- Created Kibana dashboard for real time analysis of logs for latency and throughput
- Mentored entry level data engineers/scientists to deploy models

Data Scientist at Rampart Technologies

Jul 2023 – Jan 2025

- Developed web app for data forecasting with React, Flask, and SQL.
- Created ML and statistical models (ARIMA, Fb Prophet, GARCH, PyTorch) to forecast trends and detect anomalies.
- Displayed results via interactive line graphs, heat maps (H3), text data.
- Created 12 data pipelines with Logstash to extract data from a MySQL database to an Elasticsearch database; used REGEX and Bash scripting to find latest CSV.
- Stood up an Elasticsearch database; created a Kibana dashboard for KPIs and data flow visualization.

Imagery Analyst / Scientist at US Air Force

Nov 2011 – Present

- 95% accuracy on Computer Vision model; enlisted job automated.
- Stationed at Osan AB, RAF Molesworth, Langley AFB, NGA Washington, and NGA Denver, with extensive experience in 1st, 2nd, and 3rd phase analysis of all forms of imagery.
- Served in Active Duty from 2011–2022; 2022-present USAF Reserve Component (IMA). Transitioned to data science in reserves.
- Developed Computer Vision project to automate 1st-phase analysis and photogrammetry using TensorFlow and Keras.
- Scripts query image database APIs, store live inference data in Elasticsearch, and visualize it in Kibana.

Education

B.S. Physics, Minor in Mathematics

Colorado State University — 2019–2025
All physics coursework complete; only 3 general-education classes remain.

B.S. Systems Engineering, Mechanical Engineering Focus

U.S. Air Force Academy — 2015–2019
All academic requirements complete, degree not awarded.

Associate of Applied Science, Intelligence Studies

Community College of the Air Force — 2011–2014

Certifications

GEOINT Professional Certification — Imagery Analysis Level II, NGA
CompTIA Security+ Certification