Jesse Cox

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PROFESSIONAL EXPERIENCE

National Oceanographic and Atmospheric Administration **08/2024 – Present**

Data Scientist

- Build and deploy machine learning models for algal bloom classification using hyperspectral satellite data.
- Write configurable scripts to standardize and QC 650,000 data records from a 25 year data collection project.
- Build cloud-hosted, Dockerized web applications for science teams to transfer data across cloud data platforms (Azure, AWS, Google Drive).
- Build javascript (browser-native) visualization tools using d3.js to communicate dataset findings to team leads.

Leidos **07/2021 – 08/2024**

Signal Processing Engineer

- Design and test digital acoustic signal processing algorithms for autonomous underwater vehicles.
- Develop novel machine learning models for predicting open-ocean wind speeds.
- Develop applications for analyzing and quality controlling oceanographic research datasets.
- Implement IOOS data quality control system.

United States Navy **06/2012 – 06/2018**

Non-Commissioned Officer - Anti-Submarine Warfare Subject Matter Expert

- Led a team to develop Personnel Qualification Standard for Helicopter Maritime Strike Wing Pacific.
- Oversee development of 300+ junior personnel in various leadership positions.
- Led development of Personal Qualification Standards for 1000+ personnel.
- Operate airborne sonar array in Anti-Submarine Warfare missions.

EDUCATION

University of California, Berkeley **01/2024 – 08/2025**

Master of Information, Data Science GPA: 3.9

- Machine Learning Systems Engineering
- Large Language Models (LLM)
- Natural Language Processing (NLP)
- Advanced data visualization (d3.js & Tableau)
- Data Engineering
- Experimental Design & Causal Inference

University of California, San Diego **05/2018 – 12/2021**

Bachelors of Science, Computer Science GPA: 3.56

SOFTWARE SKILLS

- Python
- Numpy / Pandas
- Tensorflow
- Pytorch
- Azure / AWS
- Docker
- Kubernetes
- CI / CD (TravisCI)
- Git / Gerrit
- Linux / Windows shell
- R
- Javascript