

Andrew Dahlstrom

Graduate Student | Data Science & Artificial Intelligence | San Francisco, CA
adahlstromcg@gmail.com | linkedin.com/in/andrew-dahlstrom | github.com/shoreOwl125

Education

San Francisco State University – San Francisco, CA | *Expected Graduation: June 2025*

Master of Science in Data Science & Artificial Intelligence | GPA: 3.9/4.0

Certificate: Data Science and Machine Learning for Biotechnology

Western Governors University – Salt Lake City, UT | *Graduated: December 2022*

Bachelor of Science in Computer Science

Experience

Graduate Research Assistant & Teaching Assistant

San Francisco State University – San Francisco, CA | January 2023 – Present

- **Online Health Information Quality Analysis Tool:** Leading the redevelopment of a legacy Python codebase to develop an NLP-driven tool for analyzing the quality of health information on websites and videos, using web scraping and advanced content analysis techniques.
- **Full-Stack Web Application Development:** Designed and built a full-stack web app for product reviews and recommendations. Used AWS EC2, Express, React, Node.js, TypeScript, and MySQL to implement personalized recommendations based on user preferences and reviews.
- **Automated Career Services for Students:** Conducted NSF-funded research to develop automated career services tools. Leveraged large language models (LLMs), prompt engineering, and NLP to automate resume creation and career planning for college students. Associated publication: *Song, Hyo Jung, Jingyi Wang, Andrew Dahlstrom, and Rafael Sunico. "Enhancing Career Preparedness Through a Software Engineering Capstone Course Design." 2024 IEEE Frontiers in Education Conference (FIE 2024).*
- **Teaching Assistant:** Assisted in preparing course materials and lecturing for CSC 890: Graduate Seminar in Software Engineering for two semesters.

Graduate AI Researcher

Oak Ridge National Laboratory – Oak Ridge, TN | June 2024 – August 2024

- Developed a Physics-Informed Neural Network (PINN) for modeling the properties of polycrystalline materials using 3D microstructure models.
- Pioneered an innovative Guided Diffusion model architecture as part of the Materials Science Division's efforts in AI-driven materials analysis.

SOC Analyst

Meta – Menlo Park, CA | November 2016 – June 2021

- Analyzed operational data across multiple security platforms to identify threats and vulnerabilities, improving system security through detailed root cause analysis.
- Collaborated with cross-functional teams to ensure the timely resolution of security incidents.

Skills

Proficient: Python, SQL, TensorFlow, PyTorch, React, AWS (EC2, S3), NLP, Gen AI, Machine Learning, Prompt-Engineering, Full-Stack Development (React, Node.js, MySQL)

Familiar: TypeScript, Java, R, Docker, Git, Express, GANs, Transformers, REST APIs, Cloud Infrastructure, Data Engineering