

Clayton Bromley

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EDUCATION

Duke University, Pratt School of Engineering - Class of 2024

- GPA: 3.71
- Major: Electrical and Computer Engineering, Computer Science
- Graduation with Distinction

Garnet Valley High School - Class of 2020

- GPA: 3.93

PROFESSIONAL EXPERIENCE

Submarine Officer, United States Navy May 2024 – Present

Co-Founder and Technical Advisor, Towster Corporation April 2023 – Present

- Design and prototype a mobile hyperbaric oxygen chamber for amphibious medical evacuations
- Acquire funding for continued technological research and development

Computer Vision Intern, Lawrence Livermore National Laboratory May 2024 – November 2024

- Researched improvements to video segmentation models on extreme data augmentations.
- Analyzed how each stage within a model's architecture understands an object's position relative to contextual surroundings.

Machine Learning Intern, Dedrone Holdings May 2023 – August 2023

- Wrote machine learning algorithms to detect and classify aerial drones using radar flightpath data
- Designed a system to analyze radio frequency protocols in intercepted drone communications

Systems Engineering Intern, General Dynamics Mission Systems May 2022 – July 2022

- Analyzed and detected errors in technical engineering diagrams and work products
- Designed systems to fulfill the criteria set by Department of Defense contracts

Active Security Clearance, Secret Level

SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS, C, MatLab, Assembly

Development: Git, AWS, Linux, Google Cloud, Microsoft OneDrive, Jupyter Notebook, VSC

Machine Learning: Computer Vision, GANs, Diffusion Models, NLP, LLMs, Transformers, RNNs, PyTorch

REFERENCES

Steven Kiessling, Lieutenant USN, Duke University NROTC, 919-602-3396

Yousef Ahmed, Towster Corp CEO, LCDR USN, Critical Care Anesthesiologist, 715-523-1205