Daniel Lamb

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EDUCATION

University of Maryland, College Park, MD   Anticipated: May 2025
B.S. Computer Engineering   Cumulative GPA: 3.1
University Honors Program and Quality Enhancement Systems and Teams (QUEST) Honors Program

EXPERIENCE

Fullstack Data Streaming Dashboard | Hyattsville, MD   **MAY 2023 - PRESENT**
Applied Research Lab for Intelligence and Security (ARLIS) - Research for Intelligence & Security Challenges (RISC)
- Applied Docker, Python, Druid, Apache Maven, and Streamlit to sort and analyze incoming data
- Collaborated on Github's CI/CD workflows to develop software with daily iterations

Systems Engineering Team, *Oceaneering* | Hanover, MD   **CANNOT DISCLOSE**
- Responsible for requirement analysis, design, testing, deployment, and embedded dependencies
- Managed the systems life cycle using Cradle AGILE software and streamlined database queries

Above and Beyond CS, *Meta, Cohort 7* | Workshop Series Bootcamp   **AUG 2022 - DEC 2022**
- Solved complex challenges in Java and Python covering data structures, recursion, threading, and run-time
- Practiced *Meta's* software lifecycle and workflow methodologies
- Strengthened debugging and communication skills with programming challenges under realistic environments

LEADERSHIP AND IMPACT

Academic Chair and Mentor, *Theta Tau* | College Park, MD   **MAY 2022 - PRESENT**
- Organized a networking workshop for 35 attendees and delivered a TED-style talk
- Started a mentorship program for 20 new members and provided them with professional development resources

Consulting Lead, *Maryland Athletics Compliance Department* | College Park, MD   **JAN 2023 - JUN 2023**
- Automated 73% of student-aid allocation for Maryland Athletics using query-based data management
- Achieved a 97% reduction in necessary database maintenance and increased vital information by 29%

Electronics Lead, Autonomous Over-Sand Vehicle (AOSV) Design | College Park, MD   **AUG 2021 - DEC 2021**
- Developed and tested an AOSV to navigate obstacles and detect damage to a payload with 94% accuracy
- Developed the AOSV signal and control circuits, and integrated both using C and Python in Arduino

Backpack Development Team Leader, *Project Lead the Way* | Catonsville, MD   **SEP 2020 - JUL 2021**
- Prototyped a backpack frame using AGILE workflow to increase support capabilities for amputees
- Worked with industry leader JanSport to increase max load of frame by 20%

PROJECTS   2021 - 2023

Python:	• ML Dashboard • Duck Game • Fifth Tribe Datathon (***1st Place***)
C:	• Mini-Compiler • Graph Database • Priority-based File Processor • Kernel Image Processor
Java:	• Mini-Twitter • Blackjack with GUI • Java to HTML Converter • Caesar Decipher

SKILLS

Programming: Python, C, Java, HTML, CSS, Verilog, MatLab, Linux, WSL, Apache, Streamlit, Druid, Docker, Processing
Development: AGILE, Cradle, Jupyter, VS Code, Eclipse, Arduino, CircuitLab, Overleaf, Adobe Suite, Office 365