Jack Zamary

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EDUCATION

William and Mary — Williamsburg, VA
BS in **Data Science**, Minor: **Biology**, GPA: 3.62 — Expected May 2027

RELATED EXPERIENCE

Undergraduate Research Analyst — Jan. 2025 – Present
Institute for Integrative Conservation & Wildlife Conservation Society — *Williamsburg, VA*
- Analyzed ecological changes across 25 Arctic lagoons using Python and the Google Earth Engine API
- Built and validated a dataset comparing field samples to satellite-derived chlorophyll indices
- Produced and visualized geospatial data in ArcGIS Pro to produce maps depicting algal bloom development
- Contributed data and supported the development of an interactive ArcGIS Experience Builder application

Teaching Assistant, Intro to GIS — Aug. 2025 – Present
W&M Center for Geospatial Analysis — *Williamsburg, VA*
- Supported students in Intro to GIS by assisting with lab assignments using ArcGIS Pro and Esri software
- Led students in lab work to master GIS concepts, including spatial data management, map design, and geospatial analysis

Biology Summer Research Intern — June 2025 – Sep. 2025
Keck Environmental Field Lab & Virginia Institute of Marine Science (VIMS) — *Williamsburg, VA*
- Analyzed ecological metrics for over 5,000 grass shrimp in Excel
- Delivered statistical analysis on effects of shoreline type in correlation to shrimp biomass, length, weight, and sex
- Conducted field research on crab pot designs to maximize crab catch and reduce bycatch
- Presented research findings at the W&M 2025 Fall Research Symposium

Diplomatic Technology OSHP Intern — Jan. 2025
U.S Department of State — *Managua, Nicaragua*
- Automated the OpenNet account approval process using Microsoft Power Automate, reducing bottlenecks
- Presented the Power Automate workflow to diplomatic technology supervisors
- Uploaded the final flow to the Diplomatic Technology Share Point

PROJECTS

AquaSense | *Python, FastAPI, Render* — Oct. 2025
- Collaborated on the development of a full-stack AI application, automating classification of benthic species
- Built a FastAPI backend integrating ML models (ResNet50, YOLOv8n) for classification and detection
- Deployed scalable backend infrastructure on Render with error handling and logging
- Awarded 3rd place in W&M's inaugural AI Case-a-Thon

LEADERSHIP EXPERIENCE

President, W&M Club Cycling — April 2024 – Present
- Led the club in weekly group rides, race events, and activities to foster growing team spirit, resulting in a more connected alumni network and increased club participation

Co-Leader, W&M Bike Alliance — May 2024 – Present
- Collaborated with two other students to lead the bike alliance, which involved designing new initiatives aimed at increasing student, staff, and faculty participation, ultimately getting over 100 members outside on bikes

Eagle Scout, Boy Scouts of America — Sep. 2016 – March 2023
- Led youth while in high school and communicated with adult leaders to plan weekend events for the troop and create meeting agendas. Served one term as Senior Patrol Leader. Participation concluded with my Eagle Scout project

SKILLS

Technical: Python, ArcGIS Pro, ArcGIS Online, ENVI, Google Earth Engine, Git, GitHub, SQL, Google Workspace, Microsoft Office, Power Automate, Adobe Creative Cloud, Canva; familiarity with HTML, CSS, and JavaScript
Professional: Process management, data collection, collaboration, advanced proficiency in Spanish