Robert Lamb

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Objective

Driven, goal-oriented, and passionate student seeking a dynamic, intellectually challenging full-time position upon graduation to kickstart my career. Wide range of technical skills spanning software engineering, data analysis, machine learning, and cybersecurity with an eagerness to learn and make an impact in the world and on those in my community.

Education

College of William & Mary – Williamsburg, VA   **Expected May 2025**
Bachelor of Science in Computer Science and Data Science (Minor)   *GPA: 3.50 (Dean's List)*

Relevant Coursework: Data Structures, Software Development, Algorithms, Linear Algebra, Intro to Data Science, Probability/Statistics, Intro to Machine Learning, Computer Organization, Finite Automata, Applied Machine Learning, Systems Programming, Cybersecurity

Leadership / Project Management:

- Kappa Alpha Order Fraternity Vice President
  - Managed and responded to internal issues of over 60 fraternity members
  - Oversaw and advised philanthropy, prudential, recruitment, alumni relations, and social committees

Technical Skills

- Python, Java, JavaScript, C, C++, HTML, SQL, Android Studio, LaTeX, Git, Linux

Work Experience

AI/ML Intern at Naval Research Laboratory – Washington, D.C.   **Aug 2024 – Present**

- Wrote Python training and testing loop for binary classification of over 10,000 satellite images to distinguish whether or not they contained ships
- Compared ResNet-50 model classification performance between PyTorch and TorchGeo model weights and achieved a best classification accuracy of 90.2%
- Implemented Grad-CAM to provide a heatmap on images to visualize pixels that models weighted most

IT Intern at Horizon Industries, Limited – Vienna, VA   **Jun 2023 – Aug 2023**

- Conducted research on ServiceNow best practices and industry trends, and presenting findings to team
- Created ServiceNow workflows, forms, and reports under the guidance of senior team members
- Collaborated with team members to document and maintain ServiceNow configurations, customizations, and integrations

Math and Computer Science Tutor – Remote   **Sep 2021 – Present**

- Managed small business tutoring four high school students via Zoom in subjects including Algebra, Geometry, and introductory Java
- Utilized neighborhood messaging board for client outreach

Project Experience

North American Bird Species Identifier (Python)

- Created Convolutional Neural Network using PyTorch library to identify 525 different bird species
- Employed transfer learning process to train data using image augmentation and data preprocessing
- Improved model efficiency by roughly 50% using batch normalization and dropout layers
- Attained a best accuracy of 79.12% and corresponding validation loss of 0.8157

GeoLab Education (Python)

- Implemented PyTorch model that ingested satellite imagery data and test scores from the Philippines
- Utilized model to predict school test scores in countries that do not conduct standardized testing
- Achieved 2nd best model performance out of 12 students

Maze Game (Java)

- Developed Java maze game with fully-functional manual and automatic modes
- Used various algorithms, including Boruvka's algorithm, for dynamic maze generation
- Designed a wall-follower algorithm to automatically solve the maze
- Created game UI in Android Studio and made it playable on Pixel 6 API level 32 emulator