Andy Le

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EDUCATION

Virginia Polytechnic Institute and State University   Expected Graduation May 2027
B.S., Computer Science (Concentration: Secure Computing), GPA: 3.42/4.00   *Blacksburg, VA*
- Relevant Coursework: Computer Organization I, Data Structures & Algorithms, Object-Oriented Programming, Contemporary Security Environments

EXPERIENCE

Undergraduate Research Assistant   **September 2024 - Present**
Hume Center for National Security and Technology (Project: RFML for Anomalous Signal Character)   *Blacksburg, VA*
- Developing software to train YOLO deep learning models to analyze wireless signals through RF signal processing techniques
- Training of models on a dataset of 100,000 images for wireless data mislabeling detection
- Writing a technical report and preparing poster summarizing findings for the Annual National Security Colloquium

PROJECTS

Waste Image Recognition App   **February 2025 - Present**
Project   *Blacksburg, VA*
- Developing a mobile app with a team of 4 using Swift and Python with OpenCV in image classification of materials for recyclability
- Aiming to improve classification accuracy through further training of the Keras model and expanding the material database for recyclability

Social Media Visualization Dashboard   **November - December 2024**
Project   *Blacksburg, VA*
- Designed a Java dashboard with a team of four to analyze engagement rates through implementing an insertion sort using a doubly linked list
- Built an interactive GUI with filtering/sorting options based on metrics types and time periods
- Collaborated via GitHub with agile milestones and UML documentation

Security Simulation   **November - December 2024**
CS 2164: Contemporary Security Environments   *Blacksburg, VA*
- Participated as the Department of Health and Mental HygieneNYC crisis simulation during Hurricane Sandy
- Drafted a portfolio, incident reports, and an After-Action Review to evaluate and improve emergency response
- Collaborated with agencies in incident management, resource allocation, and crisis communications

EXPERIENCE

Languages: C, Java, Python, HTML/CSS
Libraries/Frameworks: OpenCV, NumPy, PyTorch, YOLOv7, UMAP
Developer Tools: Git, Github, VS Code, MS Office

EXPERIENCE

Fashion Committee Head   **December 2024 - April 2025**
Filipino American Student Association at Virginia Tech   *Blacksburg, VA*
- Organizing and leading traditional and modern fashion show performances, fostering community engagement and cultural awareness of filipino culture
- Coordinating with 37 performers and other committee heads to ensure a successful culture show

Demo Performance Team Member   **September 2024 - Present**
Taekwondo Club at Virginia Tech   *Blacksburg, VA*