

# Andy Le

US Citizen | andylecontact@gmail.com | (540) 812-6010 | Blacksburg, VA

## EDUCATION

---

### Virginia Tech

B.S., Computer Science (Concentration: Secure Computing)

GPA: 3.42/4.00

- Relevant Coursework: Computer Organization I, Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Combinatorics, Contemporary Security Environments

Expected Graduation, May 2027

Blacksburg, VA

## EXPERIENCE

---

### Undergraduate Student Researcher

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

## SKILLS

---

**Programming:** C, Java, Python, HTML/CSS

**Libraries/Frameworks:** OpenCV, NumPy, PyTorch, YOLOv7, UMAP

**Tools:** Git, Github

## CERTIFICATIONS

---

- TestOut Network Pro
- Microsoft Office Specialist: Associate (Word, Excel, PowerPoint)

## 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 using GitHub, UML diagrams, and milestone tracking

### Security Simulation

November - December 2024

CS 2164: Contemporary Security Environments

Blacksburg, VA

- Played as the Department of Health and Mental Hygiene in a crisis simulation of NYC 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

## LEADERSHIP & ACTIVITIES

---

### Culture Show Fashion Committee Head

November 2024 - Present

Filipino American Student Association

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

Virginia Tech Taekwondo

Blacksburg, VA