

# Nithin Manikandan

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## EDUCATION

University of Maryland, College Park, MD  
Bachelor of Science, Computer Science  
Gemstone Honors Program

Expected May 2029  
GPA: X.XX

## TECHNICAL SKILLS

**Languages:** Python, Java, Bash, HTML/CSS

**Tools & Platform:** AWS, Linux, Streamlit

## SOFT SKILLS

**Languages:** English, Spanish (Seal of Biliteracy Certified)

**Interpersonal:** Leadership, Teamwork, Presentation

## CERTIFICATIONS

CompTIA Security+ • GFACT • AWS Connect Specialist • AWS Cloud Foundations  
LPI Linux Essentials • PCEP-30-02 • IBM Python AI Dev • IBM Cybersecurity Basics

## EXPERIENCES

### Teaching Assistant - Computer Science

Seneca Valley High School CTE Department, Germantown, MD

August 2024–May 2025

- Worked with programming teachers to assist students in Python coding and project development
- Mentored students in coding competitions, challenges, and projects (e.g., Montgomery College Programming Competition)

### Intern - Microgrid Design

Exelon Boys to STEM Academy, College Park, MD

July 2024–August 2024

- Collaborated with interns to design microgrid models and utility systems for Chevy Chase, MD
- Presented design plans to Exelon employees; awarded Best Microgrid Plan out of ~100 interns and ~30 teams

## PROJECTS

- **[PhishyWeb](#) (Web Design)** June 2025–August 2025
  - Deployed a HuggingFace BERT model in Streamlit to classify phishing vs. safe URLs
  - Built a web interface for real-time phishing detection and visualization
- **[Index for Password Strength](#) (Python)** Feb 2025–April 2025
  - Designed an entropy-based algorithm to score password strength against patterns/dictionaries
  - Created an interactive interface for testing and improving user password security
- **[Kapal Perang](#) (Java)** May 2024–June 2024
  - Implemented core game mechanics using Java OOP principles
  - Designed a GUI-based interface to simulate turn-based gameplay
- **[O-sul](#) (Python)** June 2023–Mar 2025
  - Developed a branching narrative engine with state-tracking for interactive gameplay
  - Applied modular Python design to support expandable storylines and multiple outcomes

## LEADERSHIP & INVOLVEMENTS

- BigTh!nk AI — Artificial Intelligence Bootcamp, engaging in projects and workshops
- Club Badminton — Active member, participating in intramural matches

## COMPETITIONS & HONORS

- SkillsUSA Montgomery County 2025, 1st Place – Cybersecurity
- Montgomery College Programming Competition 2025, Podium – Intro Python
- Lockheed Martin CodeQuest 2025, Top V
- Adventure in Science H4 Certificate 2023