

# NICOLAS TURNER

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## EDUCATION

Virginia Tech | Blacksburg, VA

Est. May 2026

B.S. in Computer Science (*Secure computing*) | GPA: 3.43

Relevant Courses: Data Structures and Algorithms, Computer Organization, Complex Security Systems, Networking.

## TECHNICAL SKILLS

Programming Languages: Java, Python, C, HTML, CSS, JavaScript.

Technologies/Frameworks: Linux, Unix, Raspberry Pi, Cisco IOS, Wireshark, Kali Linux, Windows OS, macOS, iOS.

## RELEVANT EXPERIENCE

Data Engineering Intern

Jun 2024 - Aug 2024

SAIC (*Science Applications International Corporation*)

Chantilly, VA

- Employing **Python**, **R**, **Spark**, and **AWS** for national security data management, ensuring resource optimization.
- Spearheading agile development to deliver timely strategic decision-making support in dynamic security environments.

Python Programming Teaching Assistant

Dec 2023 - Present

Virginia Tech Department of Engineering

Blacksburg, VA

- Cultivated Python proficiency among students in a course focused on Python concepts, **data structures**, and **OOP**.
- Mentored students** in advanced problem-solving and debugging, enhancing their readiness for data science and tech roles.

## PERSONAL PROJECTS

Personal Website | Full-stack Development

Feb 2024

- Developed a personal website employing **agile methodology** for iterative development improvements.
- Utilized **HTML**, **CSS**, and **JavaScript** to construct a robust site architecture.
- Implemented a **mobile compliant** and **responsive design** with dynamic content with animations and user-friendly **UI/UX**.

Tower of Hanoi Solver | Algorithmic Utilization

Nov 2023

- Implemented a **recursive algorithm** to elegantly solve the Tower of Hanoi puzzle.
- Designed an **interactive GUI** using Java for an engaging user experience.
- Created a custom stack in **Java** for efficient puzzle piece management with **O(n)** time complexity.

Rogue Access Point | Network Security

May 2022

- Engineered a Rogue Access Point using **Kali Linux** and **Raspberry Pi**, simulating a network attack to expose vulnerabilities.
- Achieved near **zero packet loss**, ensuring the access point's operational efficiency.
- Implemented countermeasures** by utilizing **de-authentication packets** to disconnect clients from the rogue AP.

## LEADERSHIP EXPERIENCE

Financial Officer | ColorStackVT

Feb 2024 - Present

- Provided oversight for the **financial management** and account structure for the organization.
- Formulated **budgeting strategies** and **conducted financial analysis** to ensure the chapter's sustainable growth.
- Delivered compliant and transparent reporting consistent with the established financial practices of the national organization.

Treasurer | National Society of Black Engineers (NSBE)

Mar 2024 - Present

- Directed **financial operations** and event planning to promote fiscal responsibility within the NSBE at Virginia Tech.
- Developed detailed **Excel** spreadsheets for **budget tracking**, leading to a **budget surplus** and enhanced event quality.
- Coordinated various professional and social events for **5000+ participants**, bolstering community engagement and networking.