

# Anish Nag

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## Education

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**Iowa State University** — Ames, IA Aug 2022 – May 2026  
B.S. Cyber Security Engineering

**Iowa State University** — Ames, IA Aug 2026 – May 2027  
Masters of Engineering - Cybersecurity

## Experience

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**John Deere** — Urbandale, IA May 2025 – Aug 2025

### Intern – Embedded Security Hacker - Red Team/Penetration Tester

- Developed hardware and software attack tools/devices to be utilized in professional engagements and vulnerability exploitation
- Shadowed Offensive Operations to learn the penetration testing process and practice bug bounty/vulnerability remediation
- Attended various cybersecurity conferences to participate in Capture the Flags and hacking competitions
- Technologies: Kali Linux, Python, C++, BurpSuite, Nessus, Bash, Metasploit, Bloodhound, OWASP Testing

**Cyber Tractor Challenge** — Ames, IA June 2024

### Competitor out of 24 Selected Students

- One-week long penetration testing engagement to plan, develop, and form attacks against real AgTech
- Took various classes in reverse engineering, mobile app pentesting, AI red teaming, and CAN network attacks
- Delivered final presentations to industry professionals and CISOs on findings and methodology

**John Deere** — Johnston, IA May 2024 – Aug 2024

### Intern – GRC Third Party Risk Management

- Assessed and mitigated risks for 1000+ vendors, ensuring regulatory compliance and reducing vulnerabilities.
- Developed browser isolation automation and implemented AI-driven risk assessment guides.
- Collaborated with the Red Team to gain experience in penetration testing and offensive operations.
- Technologies Used: AWS, OneTrust, Upguard, Zscaler, Terraform, Python, Agile.

**John Deere** — Johnston, IA May 2023 – Aug 2023

### Intern – Information Security Engineer

- Aggregated and normalized security findings, improving reporting accuracy for development teams.
- Built a credential cyler to enhance authentication security, reducing manual effort by 30%.
- Technologies Used: AWS, Terraform, Python, Drone, Postman, Agile.

## Certifications

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- CompTIA Security+ SY0-701: Sep 2024
- ISC2 Certified in Cybersecurity: Jul 2024
- OneTrust Third Party Risk Management Expert: Jun 2024

## Projects

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**Port Scanner in Python** Sep 2024

- Built a Python-based port scanner to identify vulnerabilities by enumerating over 10,000 ports.

**Iowa State Housing and Roommate Finder App** Aug 2024 – Present

- Built Spring Boot android app for roommate matching and apartment rental
- Implemented user registration, apartment listing, friend request, chat, and matching algorithm in Agile
- Java, System/End-to-End Testing, JPA/Hibernate, MySQL, Websocket, JWT, BCrypt, Gitlab CI/CD Pipeline

## Competitions and Events

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### Iowa State International Cyber Defense Competition

February 2024

- Set up and secured enterprise-level network against professional red teamers/penetration testers
- Placed 1st out of 38 Teams
- Nessus, PfSense Firewall, Wazuh, LinPeas/Winpeas, Active Directory, Suricata IDS, Threat-Hunting, Server Hardening

### Capture the Flags

Aug 2023 – Present

- US Open Cyber Games
- HacktheBox University CTF
- PicoCTF National Competition