

# Sean Johnson

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Georgia Tech Senior with a broad range of experience in **full stack web development**, **penetration testing**, **software engineering**, **security engineering**, and **network hardware** seeking to impact companies by leading efforts to improve software security with intelligent design.

## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

*Pursuing Bachelor of Science in Computer Science (GPA: 3.54)*

*Aug. 2021 – Dec 2024*

**Relevant Coursework:** Network Security, Advanced Operating Systems, Processor Design, Computer Networking, Digital Design Lab, Introduction to Database Systems, UI Design

## EXPERIENCE

### Software Engineering Co-op

May 2023 – May 2024

*DataPath, Inc.*

*Duluth, GA*

- Spearheaded effort to overhaul Q-Series portable satellite dish software architecture to satisfy security requirements for **multi-million dollar contracts**
- Designed/executed penetration testing process **tailored** to DataPath's network management software, MaxView
- Transformed software development team's security posture and priorities, leading to **over 20 critical vulnerabilities being resolved in months**
- Optimized testing and building processes by **90%**, reducing development cycle time and improving code quality for our embedded systems
- Scripted security tools for client MaxView installs using Powershell and Python

### Security Analyst

Aug. 2022 – Dec. 2022

*Georgia Tech Security Operations Center (SOC)*

*Atlanta, GA*

- Resolved **hundreds** of potentially malicious security incidents and suspicious activities, **improving** the security of Georgia Tech's networks
- Collaborated with coworkers and stakeholders to reach a verdict regarding incidents
- Reasoned with minimal information to **detect malicious activity** on GT workstations
- Documented security incidents in detail to **streamline future incident responses**

### Network Hardware Support Student Assistant

Mar. 2022 – Aug. 2022

*Georgia Tech Network Operations Center (NOC)*

*Atlanta, GA*

- Lead effort to transition device management platform, **significantly improving network incident response**
- Supported **10000+** network devices in **250+** buildings on Georgia Tech's campus
- Developed internal automation tools, reducing project time by **80%**
- Upgraded existing network equipment to **improve network latency** to multi-gigabit speeds
- Improved network device installation processes to **reduce network downtime** during upgrades

## PROJECTS

### WildTrack | *Client: Wildlife Movement Institute*

Aug 2024 – Dec 2024

- From-scratch **free and open-source** web app allowing wildlife experts to share their specialized knowledge
- Collaborated with five other engineers using **agile methodology** to deliver an **enterprise** product in four months
- Utilized **React**, **NodeJS**, and **MongoDB** to deliver a responsive and modern **full-stack** web application
- Designed and built modern **user interfaces and user experiences** using Figma and Material Design guidelines

### Internal Software Vulnerability Assessment | *DataPath, Inc.*

May 2023 – Aug. 2023

- Created a **unique penetration testing framework** tailored to DataPath's needs and software, MaxView
- Discovered and documented **over 20 major vulnerabilities**
- Initiated (and later executed) effort to **remediate** discovered security vulnerabilities

## TECHNICAL SKILLS

**Languages / Frameworks:** Java, C, C++, Python, HTML / CSS / JS, SQL, React, Node.js, Powershell, Bash, Swift, GoLang

**Tools / Technologies:** Android, Git, Docker, Postgres, SQLite, Nessus, Metasploit, BurpSuite, LaTeX, AWS, Wireshark, Kali Linux, Ghidra, IDA, VirtualBox, GDB, FPGA