Sean Johnson

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Georgia Tech Rising Senior with a broad range of experience in **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   *Aug. 2021 – May 2025*
Relevant Coursework: Network Security, Operating Systems, Computer Networking, Computer Systems & Networks, Digital Design Lab, Introduction to Database Systems, Design & Analysis of Algorithms, Junior Design

EXPERIENCE

Software Engineering Co-op   May 2023 – Present
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

Internal Software Vulnerability Assessment | *DataPath, Inc.*   May 2023 – Aug. 2023
- Created a **unique penetration testing framework** tailored to DataPath's needs and software, MaxView
- Penetration tested MaxView using tools including Nessus, Metasploit, and Burpsuite
- Discovered and documented **over 20 major vulnerabilities**
- Initiated (and later executed) effort to **remediate** discovered security vulnerabilities

Device Manager Platform Transition | *Georgia Tech Network Operations Center (NOC)*   May 2022 – July 2022
- Automated data transition between platforms to reduce project time by **80%**
- Utilized Python and Cisco APIs to manage data of campus's **250+** buildings and **7000+** wireless access points
- Cooperated with neighboring departments to **streamline** data sharing

TECHNICAL SKILLS

Languages / Frameworks: Java, C, C++, Python, HTML / CSS / JS, SQL, React, Node.js, Powershell, Bash
Tools / Technologies: Android, Git, Docker, Postgres, SQLite, Nessus, Metasploit, BurpSuite, LaTeX, AWS, Wirehsark, Kali Linux, Ghidra, IDA, VirtualBox, GDB, FPGA