

SPENCER REDELMAN

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science | Minor in Mathematics

Aug 2020 – Dec 2024

- Concentrations in Information Internetworks and Computer Science Theory
- Graduated with High Honors | Explore Living Learning Community
- Relevant Coursework: Advanced Algorithm Design, Networking, Data and Network Security, Quantum Computing and Information, Database Systems, Data Structures and Algorithms, Malware Reverse Engineering, Information Security

EXPERIENCE

Sophos

Remote

Cybersecurity Software Engineer Internship (Linux Team)

Jan 2025 – Current

Secureworks

Atlanta, GA

Cybersecurity Software Engineer Internship (Linux Team)

July 2024 – Jan 2025

- Applied newfound expertise in Go and C++ to implement more user-friendly agent registration error messages, significantly easing client-side registration processes and reducing support requests.
- Developed and implemented a randomized backoff algorithm to optimize agent reconnection attempts, improving system stability and reducing server load during network disruptions.
- Developed custom bash scripts to automate testing of network backoff and query logging information.
- Architected and Created AWS & Azure IMDS Gtest testing suite to ensure proper metadata retrieval and handling.

GlucoSense

Atlanta, GA

Front-end Software Engineer

July 2023 – Dec 2023

- Create-X Startup launched spring of 2023 and aimed at providing a predictive ML model for insulin levels and insulin volatility
- Utilized React, npm, and redux to manage web app packages and app-wide states by employing Storybook and MaterialUI to create a user-friendly and accessible preview of web app components and an easy testing platform

Georgia Tech Research Institute

Atlanta, GA

Cybersecurity Software Engineer Co-op

Jan 2022 – Aug 2023

- Integrated member of full-time Software Engineers to develop a file management and messaging app for the US Air Force
- Utilized software such as SonarQube and Checkstyle when updating Angular (from 8 to 16) to query code banks for potential security vulnerabilities, improper memory management, and deprecated syntax to avoid major app downtime.
- Notable achievement: *Brought the number of vulnerabilities from ~500 to 30 over a month, aiding in the project receiving a multimillion-dollar contract extension*

LEADERSHIP

Sigma Nu Fraternity Gamma Alpha Chapter

Atlanta, GA

Vice President

Nov 2022 – Nov 2023

- Architected an annual report sent to the Sigma Nu National office regarding chapter operations, expenses, campus involvement, recruitment, brotherhood development, and chapter academics
- Led 70-member chapter to first "Rock Chapter" award in 5 years as one of the top chapters in the country at the biannual Grand Chapter. Rock Chapter is defined as maintaining an average rating of excellence in all reported categories.

Recruitment Chair

Nov 2021 – Nov 2022

PROJECTS

Georgia Tech VIP – Cybersecurity Embedded Systems Reverse Engineering

Aug 2023 – Present

- Joined a faculty-led project aimed at reverse engineering a WYZE Camera to plant spoofed RF packets using GHIDRA as well as create python scripts to deconstruct & decompile RF communication of Honeywell's SWIFT smart fire alarm.

TCP Reset Injection Firewall / Local Interface Scraper

- Utilized Python's Scapy & socket libraries to create TCP / UDP packet scraper and DNS lookup w/ optional TCP Reset injections to halt specified blacklisted connections

SKILLS / AFFILIATIONS

Languages: *Proficient:* C++, Java, TypeScript, C, JavaScript, Python; *Experienced:* Go, XCSS, SQL, x86 Assembly, Bash

Software: Git, MySQL, SonarQube, Node.JS, npm, React.JS, Angular.JS, Storybook, Figma, BitBucket, GitLab, GitHub, Linux, RHEL, Ubuntu, Docker, GHIDRA, REST, WireShark, Ida PRO, VSCode, Confluence Software Suite, Cmake, Ctest, Gtest, Bazel, Robot Test Framework