JOSEPH VITA

Rochester Institute of Technology

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PROJECTS

DARLing [Rust][NIST][Vuln][SBOM][Language Models]

- A software platform culminating a wealth of cybersecurity frameworks of various topics into a tool that can be used both by a person to assess a system, or be implemented directly into a system to automate various assessments.
- Document your inventory of systems, software, dependencies and security policies all in one place manually or automatically. Attest to security policies and controls from standards such as NIST Special Publications, CSF, Mitre ATT&CK framwork and CIS-CAT controls.
- Assess the status and security compliance of your inventory items with Ansible. Audit dependencies for vulnerabilities. Evaluate textual attestations for advice and implementation tips using Language Models.
- Report generation allows the user to create a security report from the results of assessments on your inventory. Understand where your risks and vulnerabilities are and how to address them.

WarpCloud [Azure AD][Ansible][CosmosDB][DARLing]

- A heavily-featured enterprise cloud infrastructure built in Azure for me to practice implementing a full security stack into a cloud architecture.
- A backend API stack powered by load balanced VMs running a rust server connected to scalable CosmosDB instances, hardened with Log/Incident managing, Access control policies, SBOM tools for inventory, vulnerability and risk management, and A high Azure secure score based on security controls implemented automatically with an Ansible powered CI/CD pipeline.

snip2clip [C#][Visual Studio][OCR API]

- Created a tool that speeds up my workflow on a daily basis by building upon the lackluster feature set of Microsoft's current snipping tool.
- Used Visual Studio 2019 with C# to make my own version of the Windows snipping tool with the Tesseract OCR API to grab any text off the screen with an image.

RELEVANT COURSEWORK

- Calculus II, Linear Algebra, Probability & Statistics
- Cybersecurity Policy and Law, Technical Communications
- Computer Science II, Programming for Information Security
- Systems Administration, Routing & Switching
- Computer System Security, Network Security & Forensics
- Introduction to Cryptography, Authentication
- Risk Management for Information Security
- Reverse Engineering Fundamentals, Side Channel Analysis

EDUCATION

Computing Security BS

Rochester Institute of Technology

August 2019 – December 2023

Alumni

RIT's Computer Science House

August 2019 - Current

EXPERIENCE

Security Software Engineer | Team Lead

RIT Software Design Lab - DHS Contract

Dec. 2022 - Dec. 2023 Rochester, NY

- Managed a small team of developers to create a friendly and efficient AGILE software development environment. Created ordered and well-defined tasks on a Kanban board to ensure smooth, asynchronous feature development. Had a deep understanding of other SBOM projects as well as my own to demo software progress to customers and consult remote developers across teams
- Developed a reporting tool for software vendors to attest to secure software development life cycle policies with Angular and Node.js. Using NIST's OSCAL framework, reports can be created combining manual attestations and automated assessments

Backend Software Engineer

Vuzix

Jan. 2022 - Aug. 2022 Henrietta, NY

- Configured a scalable and cost-effective Azure cloud architecture for a cross platform real time video communication application that links proprietary IoT devices over the internet
- Designed and developed a secure Node.js API with CI/CD, administration, and Unit testing for a small scrum team to use on both web and android platforms

TECHNICAL SKILLS

Python | Typescript | Rust | HTML | Jest
C | C# | x86 Assembly | Azure | Windows
Ubuntu | Bash | Proxmox | Ansible | Docker
Wireshark | CIS-CAT | Snort | YARA | NIST
MongoDB | CosmosDB | MySQL | Redis
Azure Devops | Jenkins | Trello | Git