

Shubham Verma

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Education

Rochester Institute Of Technology - RIT

Master's in Cybersecurity

Aug. 2022 – 2023

Rochester, NY

Indian Institute of Technology - IIT Roorkee

Bachelor of Technology in Electronics and Communication

Aug. 2016 – July 2020

Roorkee, India

Skills And Certifications

Skills: : Offensive Security, Data Security, Malware Analysis, Enterprise Security

Languages: : Python, Javascript, C++, SQL, Java

Technologies: : React, Angular, Spring, Linux, AWS

Certifications: : AWS Certified Solutions Architect - Associate, Convolutional Neural Networks in TensorFlow - Coursera

Clubs: : RITSec, BSides Buffalo

Experience

Amgen

Data Security GRAD Intern

May. 2023 – Aug 2023

Thousand Oaks, CA

- Working on Data Loss Prevention Techniques using Symantec Data Loss Prevention (DLP) to protect data from leaving outside the organization.
- Developed Security Automations for controls on Gen AI-related tools.
- Worked with offensive techniques to penetrate current DLP policies implemented within the organization.

Societe Generale Global Solution Center

Software Engineer - FullStack

Aug. 2020 – July 2022

Bengaluru, India

- Developed project based on Event-Driven Architecture used for instant and safe transfer of encrypted JSON data.
- Worked on transfer from Event Producers to 5K+ Event Consumers through Event Router
- Built intranet Human Resources responsive website using ReactJs. Identified web-based client interactions from the given prototype and wrote javascript interface code using Reactjs workflows which supported 6k+ user employees
- Website is in production and was deployed on SharePoint servers. P99 latency for loading the website was under 500ms.
- Experience in delivering software using DevOps practices like CI,CD, Automated testing, Alerting Monitoring

Societe Generale Global Solution Center

Software Engineer - Intern

May. 2019 – July 2019

Bengaluru, India

- Developed an onboarding web application for the DevOps platform which provided company-wide users to easily configure and access DevOps tools
- Reactjs and Spring framework was used for the development of the web application. MongoDB, a non-structured database was used as a database for the web application.

Projects

YARA-rule-generator: Tool that can generate YARA rules given a set of malware samples using machine learning methods.

These generated rules could further be used to identify and successfully detect similar malware.

Advanced Keylogger: This keylogger is capable of recording all the keyboard and mouse input and mailing all the data recorded. By using an arbitrary keymap with human-friendly names, it translates the machine keys to something that the user can understand.

IoT enabled PSG machines: Using the Internet of things to get Polysomnography machine machines to transmit data wirelessly to internet servers and devices. Detecting and analyzing data to predict any anomalies.

Deep Learning Applications in Railway Health Management: Railways Tracks were detected in images taken from the drone camera. Curves, coupling, and detachment of the broad gauge railway track were detected. The width of the broad gauge railway track was determined by several pixels in images.

Malware Sandbox: Built a malware analysis lab using REMnux, an open-source Linux toolkit for reverse engineering and malware analysis.

Papers

Organizational Cybersecurity Evaluation : Evaluation of a real-time large enterprise. The evaluation included vulnerabilities found using Open Source Intelligence, Controls required to mitigate the vulnerabilities, and the total budget required to implement the controls.

Trusted computing in Mobile Network: aim to contribute a detailed survey about how trusted computing has evolved over the years and provide ways to implement trust and security in mobile communication networks starting from 3G, to 5G.