Jevin Modi

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Education

Purdue University, West Lafayette, IN **Aug 2023- May 2025**
Master's of Science in Computer Science GPA : 3.57/4

The Pennsylvania State University, University Park, PA **Aug 2018- Dec 2021**
Bachelor's of Science in Computer Science | Dean's List: 5/7 semesters GPA : 3.62/4

Professional Experience

Honeywell Intelligrated - Mason, OH | Full-Time **Mar 2022- Jan 2023**
***Software Engineer I* - C++, SQL**

- Developed and fine-tuned machine control code in C++ for warehouse automation, tailoring solutions to meet precise client requirements
- Enhanced database functionality and efficiency by crafting SQL scripts for updates and optimizations
- Provided on-site testing and live support, ensuring seamless implementation and addressing any issues promptly
- Regularly attended meetings with the project manager, clients, and cross-disciplinary engineering teams to ensure alignment and successful project execution

Techexcel Software Solutions - Mumbai, India | Internship **Apr 2023- July 2023**
***Full Stack Developer Intern* - React.js, Express.js, Python Flask**

- Contributed to React-based front-end development for a dynamic trading software
- Developed back-end utilizing Python Flask and Express.js libraries, including the creation of RESTful APIs for live data exchanges using sockets to test front-end.
- Implemented innovative front-end features using Syncfusion React libraries, enhancing user experience and UI functionality

Technical Skills

Languages- C, C++, Python, SQL | **DevOps Tools-** git, github, npm, Docker, Kubernetes
Web Development- HTML, CSS, Javascript, React.js, jQuery, Express.js, Python Flask, socket.io, Fetch API, RESTful API, Bootstrap, Material UI, SyncFusion | **Code Editors-** Visual Studio Code, Vim, Notepad++
Python Libraries- NumPy, Pandas, Matplotlib | **Databases-** MSSQL, MySQL, SQLite, MongoDB
Security Tools- Wireshark, nmap, scapy, bash, GDB | **Operating Systems-** Linux, Windows, MacOS

Academic Projects

Information Security **Aug 2023- Dec 2023**

- Successfully identified and remediated five distinct software vulnerabilities within C programs running on Kaali Linux
- Developed a strong foundation in industry-leading coding practices to design and implement secure software solutions, ensuring the robustness and resilience of critical applications
- Explored and interpreted network traces using Wireshark. Examined the traffic generated by nmap during scans
- Built basic live packet sniffing and spoofing functionality using scapy Python library
- Exploited vulnerable websites using different attacks such as SQL injection, Cross Site Scripting and Cross Site Request Forgery
- Explored different cryptographic attacks such as MD5 collision and length extension attacks

Operating Systems - C **Aug 2020- Dec 2020**

- Developed and implemented four thread scheduling algorithms, two memory management techniques, and two page-replacement algorithms, optimizing system performance and resource utilization.

File System Implementation - C **Jan 2020- May 2020**

- Built a device driver that sits between a virtual application and virtualized hardware device.
- Device driver translates file system commands to device operations
- Created data structures to keep a track of file attributes

Relevant Courses

Data Structures and Algorithms, Systems Programming, Operating Systems, Concurrent Scientific Programming
Database Management Systems, Information Security, Computer Organization and Design, Computer Vision