

Jacob Leonard

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EDUCATION

University of Tennessee, Knoxville

Bachelor of Science in Computer Science

Minor in Cybersecurity

December 2022

GPA: 3.55/4.0

WORK EXPERIENCE

University of Tennessee's USER Lab

Undergraduate Research Assistant

Knoxville, TN

August '22 – Current

- Assisted with various research and ongoing projects in usability and cybersecurity
- Conducted research on different ways to bypass DNS filtering between different relationships
- Automated data collection processes using Selenium for web scraping in Python to perform qualitative analysis

University of Tennessee's Global Computing Lab

Undergraduate Research Assistant

Knoxville, TN

January '21 – January '22

- Assisted with various research and ongoing projects in high performance computing and machine learning
- Collaborated with a team to investigate the reproducibility of the first black hole images using specialized imaging software
- Developed a workflow and documentation for my methods making the original results more accessible to the public

LEADERSHIP

CyberForce

- Led a team of six in a national competition against other colleges to patch a vulnerable infrastructure
- Implemented an IDS to monitor and report activity of multiple machines (Windows/Linux) across a virtual network
- Developed a website while maintaining AD, FTP, IMAP, and SMTP environments to access external resources

HackUTK

- Worked with the leadership team to organize bi-weekly meetings for the cybersecurity club with over 200 members
- Led workshops to teach concepts/tools and served as a liaison between members and guest speakers in industry

VolHacks

- Planned events throughout the weekend of the school's hackathon with 300+ attendees and 13+ sponsors
- Managed activities and catering needs for attendees with over \$20k from sponsorship

PROJECTS

Smart Ledger

- Led the front-end team to develop a full stack application that allows users to keep track of spendings
- Developed the frontend using React.js and MaterialUI frameworks as well as integrated API calls from the backend
- Worked closely with team members by assigning JIRA tasks to ensure deadlines were met on time

Vulnerable Login Page

- Worked with a team to build an intentionally vulnerable website for users to create accounts and practice common exploits
- Demonstrated various attacks to bypass the login page such as SQL injections, cross-site scripting, and dictionary attacks

SKILLS

Languages: C/C++, Python, Bash, HTML, CSS, JavaScript

Tools: Git, Nmap, Nessus, Snort, Splunk, Metasploit, Burp Suite, GDB, Wireshark

Technologies: Docker, VirtualBox, VMWare, Amazon Web Services (AWS), Microsoft Azure