Jay Chong

Resume has been modified for privacy. Please contact me at jaychong@berkeley.edu

EDUCATION

University of California, Berkeley   Berkeley, California
BS, Electrical Engineering and Computer Science   *August 2024 – May 2026*

EXPERIENCE

National Center for Supercomputing Applications   Remote
Cybersecurity Analyst Intern   *August 2024 - Present*
- Working on Vulnerability Management using **Qualys/Splunk** and engineering security hardening for **HIPAA** and **CUI** systems, networks, data and services. Working with **TCP/IP** networking protocols to understand Zeek.

National Center for Supercomputing Applications   Champaign, Illinois
Cybersecurity Engineering Intern   *June 2024 - August 2024*
- Checked the existence of **100+** Service Principals in DNS, service indexes, and Qualys report. Compiled a spreadsheet containing **300+** data points in order to purge vulnerable end of life websites.
- Developed a web application using React for the frontend and Node.js with Vercel serverless functions for the backend, enabling secure submission and aggregation of **500+** SSH keys and SSL certificates.
- Implemented robust client-side validation for SSH key formats and fingerprint extraction using regular expressions and the node-forge library, allowing for **30%** faster processing of submissions by users.

SETI Institute   Mountain View, California
Computation Intern   *January 2024 – June 2024*
- Utilized Numpy, Matplotlib, and Python3, to process and aggregate up to **1,000,000** data points to feed into RADMC3D computation model to produce **50+** images to help SETI scientists study planetary formation
- Developed a robust and efficient modeling framework that can be used by the scientific community for research.
- Contributed to the modification and restructuring of RADMC-3D, creating **high-fidelity models** to simulate wind structures in protoplanetary disks allowing for dense and quality images to be produced.

SKILLS

Languages: Python3, C++, Javascript, HTML, CSS

Technologies/Developer Tools: VS Code, Git, Slack, Jira, GitHub, PostgreSQL, Postman

Cybersecurity Tools: Nmap, Splunk, Qualys, Wireshark, Metasploit, Powershell, Burpsuite

PROJECTS/SELF LEARNING

Notion Reminder Bot | Discord.JS, Python, Javascript   December 2022 - February 2023
- Co-developed the Notion Bot, a discord bot that delivers task notifications for over **200+** members in a CS club.
- Built **9** custom slash commands to execute bot commands & integrated error handling and bot optimization.

Virus Totality | Python, Tkinter, Pyperclip   August 2024 - September 2024
- Developed a python application to automatically fetch **VirusTotal** data of any link or hash copied to clipboard
- Used **Tkinter** for a user interface, and formatted data in order to display in an optimized manner

Palo Alto Networks & CodePath & picoCTF   February 2022 - Present
- Currently completed around 50+ CTF challenges, strengthening skills in cryptography, and web security
- Developed automation scripts using Palo Alto Networks' **Prisma**, and **Cortex** platforms to enhance threat detection and incident response workflows, significantly reducing manual intervention.
- Applied knowledge of network security protocols, including **IPsec** and **SSL/TLS**, to secure data transmission and network communications.