

# Jay Chong

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

## EDUCATION

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**University of California, Berkeley**  
*BS, Electrical Engineering and Computer Science*

Berkeley, California  
*August 2024 – May 2026*

## EXPERIENCE

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**National Center for Supercomputing Applications**  
*Cybersecurity Engineering Intern*

Champaign, Illinois  
*June 2024 - August 2024*

- Checked the existence of Service Principals in DNS, service indexes, and qualys. Scanned and aggregated this data for security use
- Developed a system to blacklist SSH keys, strengthening access control and mitigating potential security vulnerabilities.
- Upgraded KDCs within the test realm, implementing and verifying different encryption types to enhance authentication mechanisms

**SETI Institute**  
*Computation Intern*

Mountain View, California  
*January 2024 – June 2024*

- Developed a robust and efficient modeling framework that can be used by the scientific community to analyze JWST data and study protoplanetary disk winds
- Implemented mass loss rates and spatial distribution of disk winds, providing valuable insights into the redistribution of material within protoplanetary disks
- Utilized Numpy, Matplotlib, and Python3, to process and aggregate data to feed into RADMC3D computation model to produce images.

**Palo Alto Networks & CodePath**  
*Cybersecurity Student*

Remote  
*February 2022 - December 2023*

- Participated in virtual environments to simulate cloud and network breaches and developed skills in digital forensic and incident response investigations.
- Gained knowledge of automation functionalities of Strata, Prisma, and Cortex along with proficiency in endpoint monitoring, log analysis, and network security.
- Certified as an Entry Level Cybersecurity Technician (PCCET) by NIST and skilled in threat intelligence sharing using frameworks like ATT&CK for enhanced cybersecurity.

## PROJECTS

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**Notion Reminder Bot** | Discord.JS, Python, Javascript

December 2022 - February 2023

- Co-developed the Notion Bot, a discord bot that delivers task notifications from Notion.
- Built 9 custom slash commands to execute bot commands & integrated error handling and bot optimization.

**Disk Wind Density Modeler** | Python, Jupyter Notebook

February 2024 - June 2024

- Created reusable, efficient modules for various astrophysical calculations, enhancing the accuracy and performance of protoplanetary disk models.
- Developed high-fidelity models using RADMC-3D to simulate wind structures in protoplanetary disk

## SKILLS

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**Languages/Libraries:** Python, C++, Bash, Numpy, Matplotlib, SciPy

**OS:** Red Hat, Unix, MacOS, Windows, Ubuntu, Kali Linux

**Cybersecurity Tools:** Nmap, Splunk, Qualys, Wireshark, Snort, Kerberos, Nginx, Metasploit