

# Jay Chong

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## EDUCATION

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### University of California, Berkeley

*BS, Electrical Engineering and Computer Science*

Berkeley, California

*August 2024 – May 2026*

### Diablo Valley College

*AS, Computer Science and Engineering*

Pleasant Hill, California

*August 2022 - May 2024*

## EXPERIENCE

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### National Science Foundation

*Incoming Cybersecurity Research Intern*

Remote

*August 2024 - May 2025*

- Developing and refined machine learning models to predict and identify phishing attempts in real-time, significantly reducing the incidence of successful phishing attacks within the organization.
- Led the initiative to enhance endpoint security by deploying and configuring advanced Endpoint Detection and Response (EDR) tools across critical network segments.
- Conducted comprehensive security audits and penetration testing to identify vulnerabilities in web applications, resulting in a 30% improvement in web application security posture.

### National Center for Supercomputing Applications

*Cybersecurity Engineering Intern*

Champaign, Illinois

*May 2024 - August 2024*

- Helping to protect ACCESS's CI – a highly complex and heterogeneous environment by managing vulnerabilities, analyzing security log data, and performing security vetting tasks.
- Collaborating on real-world projects, including cybersecurity defense strategies and contributed to the development and monitoring of tech platforms.
- Aiding in the development of an information sharing platform, and enhancing networking performance through the use of perfSONAR and best practices.

### SETI Institute

*Research & Computing Intern*

Mountain View, California

*January 2024 – May 2024*

- Contributed to the modification of RADMC3D, an astrophysical tool to compute particle wind models of protoplanetary disk formation in new stars.
- Assisted Dr. Gorti in researching and designing an astrophysical math model to compute density data that can be visualized in 2D slices and 3D.
- Utilized Numpy, Matplotlib, and Python3, to process and aggregate data to feed into RADMC3D computation model to produce images.

## 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

- Simulates stellar accretion disk winds based on a math model, calculating the wind density.
- Utilized Numpy & Matplotlib to visualize density data on a plot.

## SKILLS

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**Languages/Libraries:** Javascript, Python, C++, Bash, x86 Assembly, Numpy, Matplotlib

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

**Cybersecurity Tools:** Nmap, Splunk, Burpsuite, Wireshark, Snort, Catalyst, Nginx, Metasploit