

# Jaden Ong

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## EDUCATION

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### San Diego State University

Aug 2023 – May 2027

*Bachelor's of Science (B.S), Computer Science*

*GPA: 3.95*

**Relevant Coursework:** UNIX System Administration, Operating Systems, Computer Architecture/Organization, Data Structures and Algorithms

## EXPERIENCE

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### San Diego State Cyber Defense Team – Member

Aug 2024 – Present

- Achieved **top 1% ranking** (51st out of 4893 teams) in the **National Cyber League Team Game (NCL)**, by focusing on cryptography, **scanning**, **log analysis**, and **network traffic analysis**, which led to improved overall team performance
- Applied a diverse toolkit across competition scenarios, including **Wireshark** for network traffic, **Autopsy** and Foremost for forensics, **ffuf** and **Burpsuite** for web application testing, and **CLI + Python** for log analysis and automation
- Participated in **eCitadel Open**, defending a simulated commercial network with services such as web, mail, and e-commerce servers; maintained service availability under live threats while responding to business operations

## PROJECTS

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### Containerized Web Application Deployment

*Docker | NGINX | NFS*

- \* Deployed web services using **Docker** containers on **Ubuntu Server**, isolating applications in reproducible environments and managing container lifecycles with **CLI** and **systemd**
- \* Configured **NGINX** as a reverse proxy to route HTTP traffic to containerized backend services, enabling clean URL handling, port redirection, and improved modularity
- \* Integrated **NFS-mounted shared storage** into containerized workflows to support persistent volumes and ensure data consistency between containers and the host environment

### Cross-Platform Unix Administration

*Ansible | Solaris | LDAP*

- \* Automated system configuration across **FreeBSD**, **Rocky Linux**, and **OpenIndiana** using **Ansible**, enabling consistent deployment of services, users, and configuration files across Unix environments
- \* Deployed a centralized logging infrastructure by configuring **syslogd** on all systems to forward logs to a central Rocky Linux log server; used **Ansible** playbooks to manage and validate log forwarding consistently across platforms
- \* Resolved **compatibility issues** between **Ansible** modules and **OpenIndiana**, applying manual configuration fallbacks and logic in playbooks to ensure reliable execution across mixed Unix environments

### Proxmox Virtual Infrastructure with NFS Backups

*Proxmox VE | NFS*

- \* Deployed a nested virtualization environment using **Proxmox**, hosting an emulated **Dovecot email server** on FreeBSD, certificate services with **OpenSSL**, and implementing **LDAP** for centralized user management and authentication
- \* **Configured a centralized backup solution** using NFS on a Rocky Linux server, enabling consistent storage of VM snapshots and disk images from Proxmox, with support for automated exports and recovery
- \* Practiced full-system disaster recovery by **manually restoring ZFS datasets**, re-partitioning virtual disks, and reinstalling the EFI bootloader, validating complete service restoration workflows

### LDAP Authentication Integration

*FreeBSD | OpenLDAP*

- \* Configured **FreeBSD** authentication to use **LDAP with pam.ldap and nss.ldap**, enabling centralized user management and secure login access
- \* Deployed and trusted a **custom CA certificate** for encrypted LDAP connections, ensuring secure authentication and compliance with lab requirements

## SKILLS

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**Languages:** Python, SQL, Java

**Developer Tools:** Git, CLI, VMWare, Vim, Wireshark, Docker, Proxmox VE, LDAP, systemd