

Keith Daniel Tan

Las Vegas, NV 89118

keithdanieltan@gmail.com • 725-500-3057 • [Portfolio](#) • [Github](#)

EDUCATION

University of Nevada, Las Vegas

Graduation Date: Spring 2026

Bachelors of Science: Computer Science | Information Assurance Concentration

GPA: 3.7

Relevant Coursework: Cybersecurity Concepts(CS 251x), Intro to Machine Learning(CS 422), Data Structures and Algorithms(CS 302), Statistical Methods(STAT 411), Database Management Systems (CS 457), Programming Languages (CS 326), Operating Systems (CS 370), Discrete Mathematics (Math 251), Computer Organization (CS 219), Intro to Systems Programming(CS 218), Calculus I & II (Math 181 & 182)

HONORS & SCHOLARSHIPS

- **CyberCorps®: Scholarship for Service**, National Science Foundation
- **Dean's Honor List:** Spring 2020, Spring 2024, Fall 2024
- **Rebel Scholarship**, University of Nevada, Las Vegas
- **Millenium Scholarship**, Nevada State

WORK EXPERIENCE

SFS Scholar and Intern, Cyber Clinic

Aug 2024 - Present

- Delivered a critical project ahead of schedule, completing a secure and functional implementation within days, where previous efforts had stalled for months.
- Enhanced the Cyber Clinic's security posture by developing and maintaining the internal database, ensuring strict adherence to cybersecurity standards and best practices.
- Advanced team proficiency through leadership in training sessions focused on secure coding and incident response, significantly improving the clinic's threat mitigation capabilities.

Team Lead & Full Stack Web Developer Intern, Nex Oasis

Jan 2024 - Aug 2024

- Led a team of 5 interns to meet critical project deadlines, coordinating daily stand-ups, providing mentorship, and allocating tasks effectively, resulting in a 30% increase in team productivity and meeting all project milestones ahead of schedule.
- Developed a secure cryptographic backend for the TrustedWill website by implementing encryption algorithms and security protocols, enhancing website security and safeguarding sensitive user data.
- Delivered a polished will testament website using HTML, CSS, PHP, MySQL, and JavaScript, improving user experience and increasing user engagement by 20%.
- Integrated advanced features like video recording and a robust database system by applying debugging techniques and refactoring legacy code, enhancing system performance and reliability by 40%.

Teaching Assistant, University of Nevada, Las Vegas

Jan 2024 - Aug 2024

- Mentored a class of 120 students, providing debugging assistance and guidance on programming assignments, which increased student pass rates by 25%.
- Explained fundamental programming concepts and provided constructive feedback on their thought process on understanding computer science topics.

Undergraduate Researcher, University of Nevada, Las Vegas

May 2024 - Aug 2024

- Created a detailed map for the drone simulator using Unreal Engine 5, enhancing the environment for testing and development.
- Assisted in developing drone controls and technology to ensure realistic and responsive behavior, and conducted research into different drones capable of being controlled through a PC, contributing to the selection of suitable models for simulation.

PROJECTS

Portfolio Website - 2024

keithdanieltan.com - Designed and developed a personal portfolio to showcase projects, experience, and skills.

- Built using HTML, CSS, JavaScript, and JavaScript libraries to create an interactive and responsive user experience.
- Implemented modern web design principles to improve accessibility and visual aesthetics.
- Deployed the website using a custom domain and hosting for a professional online presence.

Proxmox Cyber Lab - 2025

Built a virtualized cybersecurity lab using Proxmox VE to test and analyze security tools and techniques.

- Set up a Proxmox virtual environment hosting multiple Windows and Linux machines for cybersecurity experiments.
- Configured network segmentation and firewall rules to simulate secure and vulnerable environments.
- Deployed and tested security tools such as Wireshark for network analysis and Fail2Ban for intrusion prevention.
- Conducted basic penetration testing exercises to understand vulnerabilities and improve system hardening techniques.

Raspberry Pi Self-Hosted VPN - 2025

Deployed a secure VPN on a Raspberry Pi to enable private and encrypted remote access.

- Installed and configured OpenVPN/WireGuard on a Raspberry Pi to establish a secure remote connection.
- Set up firewall rules and port forwarding to ensure secure VPN access while preventing unauthorized traffic.
- Implemented user authentication and encryption protocols to protect data integrity and confidentiality.
- Tested VPN performance and security by analyzing traffic logs and mitigating potential vulnerabilities.

Selenium Web Scraper - 2025

Developed an automated web scraping tool using Python and Selenium to extract structured data from websites.

- Designed a Python script to navigate and extract information dynamically from web pages using Selenium WebDriver.
- Implemented BeautifulSoup for HTML parsing and Pandas for organizing and storing data.
- Utilized headless browser automation for faster and more efficient data retrieval.
- Added error handling and anti-bot detection bypass techniques, ensuring high success rates when scraping data.
- Scraped product pricing, stock availability, and metadata from e-commerce platforms for analysis.

CTF & Cybersecurity Competitions

- Competed in Tracer Fire 12 CTF
- Participating in NCAE CTF (March 2025)

TECHNICAL SKILLS

Languages: C++, Python, HTML, CSS, Javascript, PHP | **Operating Systems:** Windows, Linux (Ubuntu, Kali, Debian, ParrotOS), MacOS | **Tools:** Wireshark, Nmap, Metasploit, Aircrack-ng, Ghidra, Hashcat, Splunk, Proxmox, VirtualBox, Docker