

# Ryan Park

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## EDUCATION

**University of California, Irvine** | B.S. Informatics: *Specialization in Information Technology* **Graduation:** June 2026 | **GPA: 3.9**  
**Coursework:** Computer and Network Security, Identity and Access Management, Risk Management, Software Security, SIEM, Discrete Math, Java, Data Structures, Python, Cybersecurity Foundations, SQL, Linux, OS, C/C++ Programming, Software Processes  
**Involvements:** VP Technology Intern - Alpha Kappa Psi, Technology Lead - Cyber@UCI, Webmaster - Kristos Campus Missions

## SKILLS AND INTERESTS

**Languages/Frameworks:** Python, Perl, PowerShell, OpenSSL, C#, SQL, Java, Django, .NET, Agile, Ruby, Bash/Shell, HTML/CSS  
**Tools:** Linux, Git, Metasploit, AWS, Docker, Google Cloud Platform (API, JS SDK), SIEM, Suricata, Splunk, Jira, macOS, SQLMap  
**Certifications:** IBM: Intro to IT, Google Cybersecurity Specialization, AWS Fundamentals, Microsoft: Cybersecurity Foundations  
**Interests:** Cybersecurity, Networks, Databases, Opensource, IoT, Cryptocurrency, IT, Cryptography, Web Design, AI, Game Dev

## EXPERIENCE

### Allstate Engineering

Los Angeles, CA

Information Technology Intern

June 2024 - September 2024

- Implemented and strictly enforced over 45+ robust security protocols for managing and distributing promotional content, significantly reducing the risk of unauthorized access and ensuring full compliance with industry security standards.
- Assisted in monitoring and supporting the vulnerability patching process for over 200 Windows and Linux servers using Jira, learning to track security flaws and contribute to timely updates that help maintain system integrity and prevent breaches.
- Collaborated closely with senior IT staff on vital cybersecurity initiatives, actively participating in the development and refinement of robust security policies and practices designed to safeguard company data against emerging threats.
- Facilitated training sessions on cybersecurity awareness and protocol adherence for interns and employees, enhancing understanding of security measures and contributing to a 30% improvement in compliance rates across departments.

### MuseTown

Los Angeles, CA

Product Development Intern

June 2023 - September 2023

- Collaborated with a cross-functional team of developers, designers, and product managers to enhance user engagement by 15% through the iterative design and refinement of features for MuseTown's digital products, guided by feedback analysis.
- Conducted extensive market research and competitive analysis to identify industry trends and opportunities, directly leading to a 20% increase in product adoption among key demographic groups by informing targeted feature development.
- Created comprehensive product specifications and detailed documentation that significantly facilitated clear communication and efficient workflow across engineering, marketing, and design teams, ensuring alignment with project scope and timelines.
- Designed detailed wireframes and interactive mockups using Figma and Adobe XD, significantly enhancing the visual and functional design of product features, which improved team collaboration and accelerated the development process.

## PERSONAL PROJECTS

### Advanced Malware Analysis Sandbox - Python, VirtualBox

- Designed and implemented a sandbox environment via VirtualBox and Python for analyzing malware behavior in isolated VMs
- Automated dynamic analysis by scripting malware execution monitoring, capturing file, registry, and network changes.
- Reduced analysis time by 40%, enhancing threat detection by integrating with ELK Stack to visualize threat patterns.

### Enterprise Network Vulnerability Assessment Tool - Bash, Python

- Developed a Python-based vulnerability scanner using Scapy and Nmap to identify weak points in enterprise networks.
- Automated reports of risk levels, attack vectors, and mitigation strategies, boosting security assessment efficiency by 30%.
- Demonstrated simulating penetration testing, uncovering and resolving critical vulnerabilities in a controlled environment.

### Firewall Simulation - Python, Bash

- Developed a Python-based simulation to replicate and log over 10,000 daily network requests for analysis and auditing.
- Built IP allowlists/blocklists and implemented stateful/stateless packet filtering to enhance network security controls.
- Identified vulnerabilities, optimized response times by 20%, and conducted penetration tests evaluating firewall robustness

### Job Hunter - AWS, Node, React, Django, Rest APIs

- Engineered a secure full-stack web application hosted on AWS, integrating identity-based access and encryption for security.
- Deployed AWS ElastiCache to optimize query handling, achieving 90% reduction in response sizes and 85% improved latency.
- Developed a dynamic user interface using React, incorporating advanced Node.js server-side logic and Django REST APIs.

### Caesar Decipher - Java

- Developed a Java Caesar Cipher application, increasing text encoding efficiency by 20% and enabling real-time interaction.
- Designed robust error handling that significantly reduced input errors by 40%, greatly enhancing overall system stability.
- Conducted over 100 detailed test scenarios, thoroughly validating the encryption algorithm with a 99% accuracy rate.