

HENRY MARTINEZ, CC

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EDUCATION

California State University, Northridge
Bachelor of Science, Computer Science
GPA: 3.59, Honors

Expected graduation May 2025

Relevant Coursework: Advanced Data Structures, Algorithms & Computer Programming, Calculus I & II, Computer Architecture & Assembly Language, Computer Organization, Data Structures & Program Design, Data Mining, Database Design, Discrete Structures, Intro Probability, Linear Algebra

SKILLS

Languages: Python (Advanced), Java (Intermediate), Javascript (Intermediate), C++ (Basic), SQL (Advanced), Bash (Intermediate)

General Tools: Docker, GitHub, Jira, Nginx, LDAP, Postman API, VSCode | **Operating Systems:** Windows, MacOS, Linux | **Network Protocols:** HTTP/S, SSL, TLS

Security Software: ADFS, Amazon Cognito, CyberArk, Microsoft Entra ID, Oracle Access Manager, RedHat Identity Management, SailPoint IdentityIQ

EXPERIENCE

NASA Jet Propulsion Laboratory

June 2023 - Present

Identity, Credential, and Access Management (ICAM) Engineering Intern

- Developed a Python web application to automate the SAML single sign-on request and integration process, improving efficiency by ~97%.
- Designed a comprehensive OpenID Connect single sign-on integration process, complete with documentation, status-tracking, and communication workflows, for ~30 applications and counting.
- Configured ~60 SAML/OpenID Connect single sign-on integrations, for both on-premises and SaaS applications, supporting over 5,500 employees.
- Served as a primary contact for single sign-on inquiries, providing guidance and resolving technical issues for application owners.
- Developed real-time dashboards and reports to track relevant IAM topics, such as SSO integrations, risk management, identity lifecycles, etc.
- Created a Python script to automate the provisioning and tracking of logical access for new/updated employees, increasing efficiency by ~83%.
- Tracked the on-boarding of ~1,450 new/updated employees, provisioning logical access entitlements for ~140 individuals.
- Contributed to the development of a SailPoint IdentityIQ on-boarding process, improving workflow efficiency and scalability.
- Upgraded server monitoring tools to deliver real-time alerts for critical server downtime, enhancing system reliability.

NASA L'SPACE Proposal Writing and Evaluation Experience (NPWEE)

December 2022 - April 2023

Proposal Writer & Academic Researcher

- Collaborated with a nationwide team of 12 students on a NASA-guided research proposal, focused on generating solutions for space navigation and communication, with an emphasis on efficient and secure data transmission.
- Researched cybersecurity policies and procedures, brainstorming potential space-related vulnerabilities and proposing mitigation strategies.
- Developed skills in writing and reviewing quad charts, new technology reports, and proposals under the mentorship of subject matter experts.

PROJECTS

AuthFlow: Single Sign-On Visualization | Python, Heroku, Auth0

November 2024 - Present

- Developed a visualization tool to simplify the understanding of four SAML and OpenID Connect single sign-on flows, enabling developers to implement secure authentication more effectively.
- Self-hosted the application on Heroku, and utilized Okta's Auth0 as the identity provider, allowing the creation of clients and user accounts.

NASA Great Lunar Expedition for Everyone (GLEE) | C++, Arduino IDE, Teamwork

November 2022 - July 2023

- Collaborated with a team of six students from three state-wide universities on a NASA-funded project to program a miniature spacecraft using C++ and Arduino IDE, collecting local surface data for future lunar mission application and implementation.

CERTIFICATIONS & ACHIEVEMENTS

CompTIA Security+

December 2024

Google Cybersecurity Certificate

December 2024

ISC2: Certified in Cybersecurity (CC)

November 2024

JPL ICAM Honorable Mention Recognition

June 2024

ORGANIZATIONS & AFFILIATIONS

ISC2 | Member

November 2024 - Present

- Actively pursuing certifications to advance knowledge and expertise in cybersecurity.

CSUN Layer8 Computer Security Club | Participant

August 2023 - Present

- Participated in workshops, competitions, and other events, focused on deepening the understanding of cybersecurity subjects and topics.

STEM Advantage | Scholar

December 2022 - Present

- Selected for a program that supports underrepresented STEM students through mentorship, professional development, and networking.