

Jesus Javier Ponce

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Education

University of Utah

B.S. Honors in Computer Science ; GPA: 3.9

B.S. in Applied Mathematics

- Minor in Human Rights and Resources

Coursework: Computer Security, Web Dev, Real Analysis, Computer Systems

Salt Lake City, UT

Grad Date: Spring 2027

Utah Valley University

A.S. in University Studies; GPA: 4.0

Spring 2023

Mountainland Technical College

Certificate in Information Technology; GPA: 4.0

Certificates Awarded: CompTIA ITF+, CompTIA A+, CompTIA Network+

Spring 2023

Utah County Academy of Science

Graduated with High Honors; GPA: 4.0

Spring 2023

Experience

Kahlert School of Computing — Research Assistant

Salt Lake City, UT

Jan 2024 – Present

- Project: HERBIE — Numerics floatingpoint accuracy tool that evaluates expression accuracy and generates variants with improved accuracy and speed.
 - Implemented costmodel analysis to increase accuracy by 5% and speedup from 3.6x to 4.9x.
 - Third author of “TargetAware Implementation of Real Expressions,” accepted to ASPLOS ’25.
- Project: Web Browser Fuzzing — A smarter browser fuzzer that detects and groups layout bugs.
 - Implemented clustering to reduce duplicate bug reports and boost efficiency.
 - Advanced layout invalidation research while strengthening security expertise.

General Dynamics Land Systems — Platform Cybersecurity Intern

Detroit, MI

May 2025 – Aug 2025

- Designed test plans for vehicle logical entities to ensure system security for an experimental platform.
- Developed a prototype postquantum cryptography key exchange for integration on a vehicle platform.

NASA Langley Research Center — Formal Methods Intern

Hampton, VA

Jan 2025 – May 2025

- Prototype Verification System (PVS) for formal verification combining specification, theorem proving, and model checking.
- Developed a PVS LLM using Jupyter Notebooks to collect and analyze user query data.
- Adapted a Visual Studio plugin to enhance integration and usability.

Leadership

Cybersecurity Club — President

Salt Lake City, UT

Jan 2024 – Present

- Developed weekly CTF skills workshops emphasizing hands on learning.
- Coordinated company partnerships for networking opportunities, guest lectures, and site visits.

Undergraduate Student Advisory Committee — President

Salt Lake City, UT

Aug 2024 – Present

- Evaluated professors’ performance through student evaluations, CV analysis, and research outcomes.
- Organized engagement events to foster student involvement, opportunities, and community.

Skills

Hard Skills: Networks, Azure Active Directory, Power Automate, Ticketing Systems

Programming Languages: Python, Racket, C#, C++, C, HTML, PHP, CSS, SQL

Language: Native Spanish speaker