

Zachary A. Carmichael

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Academic Objective

I am an ambitious and dedicated Computer Science student with a proven track record in management, business, and leadership. I have a strong foundation in programming, data science, and AI. My academic and independent research interests focus on quantum computing, data aggregation, and cybersecurity, with particular attention to the practical applications of quantum technologies. I am passionate about learning emerging technologies to address new and arising complex challenges in the world of computing and data security. I seek to gain hands-on experience in applied quantum computing and software development, so I can contribute to pioneering advancements while staying at the forefront of innovation and security.

Education

High School Diploma | Graduated 2021 | Penn Foster High School

Graduated from Penn Foster's High School Diploma program with a cumulative 3.9/4.0 GPA.

Associate of Applied Science in Computer Science | Graduated Spring 2025 | New Mexico State University Alamogordo

Relevant Coursework: Python, C++, Data Structures, Discrete Mathematics, Digital Logic | GPA: 3.9/4.0

Associate of Science in Computer Science | Expected Spring 2028 | New Mexico Tech

Transferred Fall 2025.

Technical Skills

- C++, Python, and C# Programming
- SQL and Data Cleaning
- Microsoft Azure/DevOps
- Git/Version Control
- Retrieval Augmented Generation (RAG)
- HTML, CSS, MD, and LaTeX Markup Languages

Soft Skills

- Leadership Coordination
- Technical Documentation
- Record Keeping
- Teamwork and Collaboration
- Project Management
- Problem Solving
- Conflict Resolution
- Independent Research

Professional Experience

Lead Supervisor | Rollarena Skating Rink | May 2021 – November 2023

Hired as a Snack Bar Attendant while in high school in May of 2021, I was quickly promoted to Lead Supervisor in November of 2021. Responsibilities included training new employees and volunteers, inventory, freight, event management, security, minor first-aid, and ensuring customer satisfaction.

Admin. Assistant, General | New Mexico State University Alamogordo | September 2023 – May 2025

Served as the General Administrative Assistant for the Online Learning Division at NMSU-A. Responsibilities are budgeting, document processing, invoice generation, payments, video captioning and transcriptions, web page formatting, automation scripting, and database management.

Cybersecurity Intern | New Mexico Cybersecurity Center of Excellence | May 2025 – Current

Collaborating with an NMCCoE co-op with local national laboratories to explore methodologies with AI.

References

Greg Hillis, M.S. Management Science, and M.A. National Security and Strategic Studies

Career and Technology Division Head

Office: 575-439-3768 | Email: ghillis@nmsu.edu

Relationship: Professor

Gihan Gamage, Ph.D. Astrophysics

Assistant Professor of Physics and Astronomy

Office: 575-439-3763 | Email: glgamage@nmsu.edu

Relationship: Professor and Honors Society Advisor

Sherrell Wheeler, MBE, Business Education

Director of Online Learning

Office: 575-439-3668 | Email: swheeler@nmsu.edu

Relationship: Former Employer

Lorie M. Liebrock, Ph.D. Computer Science

Director of New Mexico Cybersecurity of Excellence

Office: 575-8835-6729 | Email: lorie.liebrock@nmt.edu

Relationship: Internship Supervisor