

Zachary A. Carmichael

Cell: 575-430-8373 | ZacAC2024@outlook.com | smooken-development.github.io/ZacACarmichael-Portfolio

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 integrations. 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.

Technical Skills

- C++, Python, and C# Programming
- SQL and Data Cleaning
- Microsoft Azure/DevOps
- Git/Version Control
- Retrieval Augmented Generation (RAG) in AI
- 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

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

Collaborating with an NMCCoE co-op with Sandia National Laboratories to explore new methodologies to utilize LLMs in generating documentation of legacy codebases.

Administrative Assistant | NMSU Alamogordo, Online Learning Division | Sept 2023 – May 2025

Handled budgeting, invoice processing, and payee information. Wrote automation scripts to streamline review and payment procedures. Produced video captions and transcriptions to meet accessibility requirements. Maintained and updated databases regarding course and reviewer records. Collaborated with the QA team to uphold course standards and documentation.

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

Promoted from Snack Bar Attendant to Lead Supervisor within 6 months. Oversaw nightly operations for events with up to 300+ attendees, ensuring safety, security, and customer satisfaction. Managed inventory, freight processing, and minor first aid incidents. Trained and managed both employees and volunteers.

Education

BS, Computer Science | Expected Spring 2028 | New Mexico Tech

AAS, Computer Science | Spring 2025 | NMSU Alamogordo | *Graduated with Honors, Dean's List*

Relevant Coursework: Python, C++, Data Structures, Discrete Mathematics, Digital Logic, Statistics

High School Diploma | 2021 | Penn Foster High School | *Graduated with Honors*

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 Center of Excellence

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

Relationship: Internship Supervisor