

Miguel D. Wills

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KEY COMPETENCIES

Python, **Java**, JavaScript;
experienced with HTML, CSS.
MySQL server

Concurrency, Problem-Solving
Communication
Team Collaboration

Strong interpersonal skills
Proactive and self-motivated
Exceptional organizational skills

EDUCATION & CERTIFICATIONS

Colorado School of Mines

Computer Engineering

Relevant Coursework:

- Data Structures and Algorithms
- **Software Engineering (Java)**
- Algorithms
- **Linear Algebra**
- Calculus III
- Databases
- Computer Organization (Assembly)
- Intro to Networks

Social & Behavioral Research - Basic/Refresher
CITI

Pre Security

TryHackMe

TestOut Network Pro

TestOut Corporation

PROJECTS & EXTRACURRICULARS

Treasurer, Colorado School of Mines Cybersecurity Club

Colorado School of Mines

Multi-threaded Frequency Counter in Java

- Developed a high-performance **Java** application using **Atomic Integers** to count letters in a 1,000,000,000-character text, significantly outperforming the serial version.
- Utilized a **profiler** to systematically test and identify the fastest approach
- Includes a **detailed report** and algorithm demonstrating when the serial implementation can be more efficient based on core usage.
- **Open-source code and documentation** available on my GitHub.

Wordle extension

- Developed a highly rated Wordle extension with a global user base
 - Integrated *Spanish functionality* to cater to a diverse audience.
 - 30% of all downloads are from Spanish Speaking Countries
 - Utilized **Google Chrome API calls** and technical skills in JavaScript, HTML, and CSS to build and enhance the extension.
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PROFESSIONAL EXPERIENCE

Advanced AI Security Researcher

Colorado School of Mines R1 research

Aug 2024 - Present

- Leading the exploration of new AI and machine learning methods to boost online security and privacy for users.
- Researching the areas in which we can enhance the protection of end users' online security and privacy using advanced AI techniques.

Robotic Research Intern for Migrants and Unhoused

Colorado School of Mines SURF program

May 2024 - Aug 2024

- Conducted 8 in-depth interviews with high-value clients, to gather insights for human-robotic interaction.
- Researched human-robot interaction to help migrant communities and unhoused communities reach social services and education.
- Proposed technical solutions to help migrants and unhoused communities reach social services
- Working on workshop paper to present at technical Conference in October

Cybersecurity Educator

Jefferson County Public Schools

July 2021 - August 2021

- Taught a Social Engineering Experiment to teachers within Jefferson County, 05/2021.
- Gave a Live Demonstration on social Engineering using payloads coded by myself on a VBS file that hid in %USERPROFILE% and created an ASCII Bart Simpson that says "I will not trust USBs in my computer"

Head Lifeguard

Applewood Athletic Club

May 2016 - August 2023

- Effectively taught and enhanced young member's swimming abilities to set new club records
- Designed and implemented new rules and regulations to protect member from Covid while still being able to enjoy the pool, resulting in no COVID-19 cases.
- Managed effectively small teams while taking chemical consistently every two hours