

# Adrian Collier

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## INTERNSHIPS / PROJECTS

### Honeywell Federal Manufacturing & Technologies - Kansas City National Security Campus

#### Software App Development Intern III

Kansas City, MO | June 2023 - August 2023

- Played a key role in a software team responsible for developing and maintaining mission-critical custom applications essential for the production of non-nuclear components, integral to the assembly and function of our nation's nuclear weapons.
- Collaborated with a cross-functional team to develop a custom Single-Sign-On (SSO) solution, integrating various APIs, automating real-time synchronization of company-wide access rights and user roles.
- Led the significant optimization of our Confluence system by reviving an existing project which aimed to boost documentation accuracy by identifying and archiving expired and outdated documentation used daily by 6,700 professionals, including scientists, engineers, and chemists.
- Identified 16,000+ expired pages out of 40,000+ through JSON data manipulation via the Confluence API, and developed a plan to prioritize targeting spaces with the most expired content first. This optimal approach resulted in a significant improvement which increased documentation currency from 61% to 94% by only interacting with 11% of the total spaces. While ensuring no crucial data was archived by keeping consistent and clear communication with space owners and obtained approval from the company's legal team.

### New Mexico State University - ICT Department

#### NMSU ICT Lab Associate

Las Cruces, NM | July 2022 - current

- Solved a real world problem for the NMSU ICT Department by developing a full-stack web application that automates the manual process of inspecting the status of the WEPAnow cloud-based printers scattered throughout the NMSU Main Campus, enhancing efficiency of Lab Associates by reducing the average downtime of our WEPAs.
- Developed a dynamic, interactive, self-refreshing GUI showcasing vital details like name, location, health status, toner levels, and repair needs of each WEPA printer. This application is used daily by 20+ ICT Department employees.
- Directly engaged with the WEPAnow software engineering team to explain the operational challenge and proposed solution. Secured approval and access to their API, enabling the development of the monitoring tool.
- Leveraged a tech stack comprising HTML5, CSS3, JavaScript, Node.js, Express.js, MongoDB, and WEPAnow API. Additionally utilized tools like Postman for API testing and deployed the application on Amazon Web Services with security measures via Cloudflare.

### Web Application Snake Game

2021 - 2022

- Developed a 2D rendition of the classic Snake game using core web technologies - HTML5, CSS3, and JavaScript.
- Incorporated fundamental game mechanics such as growth of the snake, food spawning, increasing speed, boundary and self-collision checks via event listeners.
- Designed an intuitive and user-friendly interface, complete with start, and restart functionalities, complemented by a real-time score display.

## SKILLS

- Languages: Python, JavaScript, C, Java, Groovy, SQL, MQL
- Technologies: HTML5, CSS3, React.js, Node.js, Express.js, ScriptRunner
- Tools: Linux, Bitwise SSH Client, Git, Github, Eclipse, VS Code, Postman, MuleSoft AnyPoint, ARC, AWS S3, AWS Elastic Beanstalk, Cloudflare, Agile Methodology, Scrum, Jira, Confluence, Kanban, Sprint Planning,
- Databases: MYSQL, MongoDB, OracleDB

## EDUCATION

### Bachelor of Science Computer Science

New Mexico State University

Jan 2020 - Dec 2023

GPA: 3.36

## RELEVANT COURSEWORK

- Database Systems I (Python, MySQL)
- Programming Languages (C, Python, JS, Ruby, Fortran)
- Modern Web Technologies (HTML5, CSS3, JS, JSON, Node.js, Express.js, MongoDB)
- Data Structures and Algorithms I & II (Java)
- Others: Software Development, Compilers & Automata Theory, Discrete Math, Object-Oriented Programming, Machine Programming

## PRIOR WORK EXPERIENCE

### U.S. Marines - Active Duty (Honorable Discharge)

**Engineer Equipment Mechanic / Marine Embassy Guard (Special Duty Assignment)** California, Lilongwe Malawi, Adana Turkey, The Hague, The Netherlands

October 2013 - October 2019

- Had the privilege of serving in the U.S. Marines, renowned as the nation's most disciplined military branch. Throughout 6 years and multiple tours overseas, this life changing experience provided me with the opportunity to significantly sharpen my discipline, grit, and problem solving skills, along with the ability to work in teams under high pressure situations. I came across thousands of different personalities, different leadership styles, different backgrounds, and encountered some exceptional mentors and leaders who have made me who I am today.
- Awarded the Navy & Marine Corps Achievement Medal for significant and sustained lead involvement in a project that saved the U.S. Marine Corps \$11,532,636 while conducting duties as an Engineer Equipment Mechanic.
- Qualified for and served as a vital member of a U.S. Embassy Marine Detachment embedded into Department of State across three continents in order to protect American diplomats, US Embassies, and classified information overseas from terrorist attacks, bomb threats, riots, political turmoil and other threats.
- Held many different leadership billets such as: Operations NCO, Response NCO, Training NCO, Welfare NCO, Mess NCO along with technical roles such as Door Breacher, Point Man, and Fire Team Leader as I rose through the ranks from Pvt to Sgt.
- Provided armed security escorts to U.S. Embassy employees departing south-east Africa during times of increased threats from kidnappings, extortion checkpoints, and roadside attacks during the 2019 Malawi protests, with a 100% success rate.
- Rapidly secured the U.S. Embassy compound and our personnel after a violent series of deadly clashes occurred between thousands of protestors and the Malawi military outside the Embassy on June 9-17, 2019 during which tear gas grenades and live rounds were fired.
- Routinely interacted with hundreds of embassy staff and visitors, including our U.S. Ambassadors, and visiting high ranking officials such as Generals, the Secretary of Defense, and the First Lady of the United States.