Adrian Collier

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CODING EXPERIENCE/ INTERNSHIPS

NMSU - ICT Department

Full Stack Development - ICT Student Technology Lab Associate

July 2022 - current

- Solved a real world problem for the NMSU ICT Department by developing a full-stack web application that automates the monitoring of all cloud-based WEPA printers on a university campus of 14,000 students.
- Developed a modern and interactive GUI which displays and alerts vital data like campus location, health status, toner levels, repairs needed of each printer. It is used daily by 27 NMSU ICT employees.
- Tech Stack: HTML5, CSS3, JavaScript, React.js, Material-UI, Node.js, Express.js, MongoDB, WEPAnow API, AWS Elastic LightSail
- References: Team Leads - micaela_@nmsu.edu, felixds@nmsu.edu
- Demo: labcrabs.com

NMSU Senior Project - Space Themed 2D Shooter Game

Full Stack Web Application powered by NASAs public asteroid API

August 2023 - December 2023

- Led the development of an engaging 2D platformer game as part of a collaborative senior project, utilizing Phaser.js for game development within an educational and interactive display of the solar system.
- Architected a full-stack web application, integrating the game with a robust backend powered by the MERN stack (MongoDB, Express.js, React.js, Node.js) and styled with CSS3, hosted on AWS LightSail for scalable deployment.
- Leveraged NASA's NEOWS API to infuse astronomical accuracy and educational value into the game, offering an immersive learning experience through interactive gameplay.
- Demo: AsteroidExplorer.com

Honeywell FM&T - Digital Assets

Software App Development Analyst Intern III

Kansas City, MO | June 2023 - August 2023

- Actively participated in an Agile software team, focusing on maintaining custom internal applications pivotal for the manufacturing of non-nuclear components for national defense missile systems.
- Spearheaded the development of a bespoke Single Sign-On (SSO) solution, leveraging Java, Postman and various APIs for the seamless integration of real-time synchronization of access rights and user roles across the entire organization in JIRA and Confluence platforms.
- Significantly enhanced the efficiency of a Confluence Enterprise system from 63% to 86% by employing the Confluence Cloud REST API, Postman, and Node.js for advanced data analysis. Identified and quantified expired and seldom-viewed content, pinpointing areas of redundancy for optimization.
- References: Ben Travis, Manager, btravis@kcnsc.doe.gov | John Solomon, Mentor, desolomon0@gmail.com

SKILLS

- **Languages**: Java, Python, JavaScript
- **Technologies**: HTML5, CSS3, React.js, Node.js, Express.js, Postman, AWS LightSail
- **Tools**: Agile, Scrum, Sprints, Jira, Trello, Kanban, GitHub
- **Databases**: MYSQL, MongoDB

EDUCATION

Bachelor of Science
Computer Science
New Mexico State University
Jan 2020 - Dec 2023
GPA: 3.36

FAVORITE COURSES

- **Data Structures** (Sorting, Lists, Maps, Stacks, Queues, Deques, Trees)
- **Data Structures & Algorithms II** (Greedy, Dynamic, Divide & Conquer, Dijkstra's Algorithm)
- **Object-Oriented Programming** (C++, Java, Abstraction, Encapsulation, Inheritance, Polymorphism)
- **Software Development** (HTML, CSS, JavaScript, Node.js, Agile Scrum, Kanban)
- **Database Systems** (Python, MySQL, ER Models, Relational Models, SQL Queries, Normalization, Database Security)
- **Compiler & Automata Theory** (C, Lex, YACC, MIPS Assembly)
- **Human Centered Computing** (Color Theory, UI/UX Principles, Responsive Design, SEO)

US Marines - Active Duty - Top Secret Clearance

MCLB, CA | Adana, Turkey | The Hague, The Netherlands | Lilongwe, Malawi
October 2013 - October 2019

- Served 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.
- 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.
- Provided armed security to U.S. Embassy employees 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 perimeter on June 9-17, 2019 during which tear gas grenades and live rounds were fired.
- Routinely interacted with hundreds of embassy staff and visitors on a daily basis, including U.S. Ambassadors, and visiting high ranking officials such as Generals, the Secretary of Defense, and the First Lady of the United States.