Markiece Givens

binarygivens | markiece-givens | markiecegivens.com |

Education & Certifications

University of Nevada, Las Vegas — Las Vegas, Nevada
Bachelor of Science, Physics & Bachelor of Arts, Computer Science — May 2024
Master of Science, Computer Science (AI/ML) — August 2024 - Present

Amazon Web Services Certification
Certified Cloud Practitioner — March 2024

Technical Skills

- **Programming Languages:** C, C++, Python, Java, JavaScript, HTML, CSS, SQL
- **Data Analysis:** Python (NumPy, Pandas, Matplotlib), Tableau, Excel
- **Tools & Technologies:** AWS (S3, CloudFront, Route 53, Kubernetes), Node.js, Git, Jira

Projects

Portfolio Website (www.markiecegivens.com) — React, AWS, Robot Framework — July 2023 - Present

- Designed and developed a personal portfolio website hosted on AWS using React.
- Showcases personality, technical expertise, and coding skills, serving as a visually engaging showcase for potential employers.

Wedding Website — React, API, Robot Framework — November 2024 - Present

- Designed and developed a custom wedding website for my 2025 wedding, serving as an information hub and RSVP portal for guests.
- Integrated a custom-built API to handle guest RSVP submissions efficiently.
- Used Robot Framework to automate testing and debugging of the RSVP API, ensuring reliability and seamless user experience.

Autonomous Drone — C++, Python, ROS2, Gazebo — December 2024 - Present

- Simulated an autonomous UAV in Gazebo, showcasing programming and physics knowledge.
- Implemented sensor-based navigation and obstacle avoidance, demonstrating real-world problem-solving skills.

Work Experience

August Robotics

Robotic Engineer intern — August 2024 - December 2024

- Conducted ongoing maintenance and troubleshooting on more than 100 exhibition robots, ensuring optimal performance and reliability in a fast-paced workshop environment.
- Assisted in the deployment of cutting-edge exhibition robots at various venues across the USA and continental North America, coordinating logistics and on-site support.
- Collaborated with R&D engineers to test and develop new features for the robotic fleet.

Zoox

Autonomous Software Tester — July 2022 - August 2024

- Leveraged Linux to diagnose and resolve lidar, camera and radar problems, reducing downtime by 50% and improving overall system reliability.
- Conducted software operations to support vehicle functions and mission requirements.
- Operated and troubleshooted a fleet of over 200 autonomous vehicles.

Clark County Department of Environment and Sustainability

Research Fellow — July 2023 - Dec 2023

- Developed a desktop application and API to provide quick access to Las Vegas air quality data, enabling retrieval of air quality indexes by date or pollutant.
- Utilized Python for data analysis, modeling, and visualization to derive meaningful insights from air quality datasets.
- Perform rigorous Quality Assurance (QA) on air quality data to increase accuracy and reliability of datasets by 7%.