

# Markiece Givens

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## EDUCATION & CERTIFICATIONS

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### University of Nevada, Las Vegas

Bachelor of Science, Physics

Bachelor of Arts, Computer Science

Master of Science, Computer Science

### Amazon Web Services Certification

Certified Cloud Practitioner

Las Vegas, Nevada

August 2018 - May 2024

August 2022 - May 2024

August 2024 - Present

March 2024

## TECHNICAL SKILLS

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Systems	Linux, Windows
Programming Languages	C, C++, C#, CSS, html, Java, Javascript, Python, SQL
Data Analysis	Python, Excel, Tableau
Backend Technologies	AWS (CloudFront, Route53, S3), Node.js
DevOps	Kubernetes, Git, Jira

## PROJECTS

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**Portfolio Website (www.markiecegivens.com)** — JavaScript, React, HTML, CSS, AWS

**In-Terminal Chess Game** — C++, Pointers, Dynamic Memory Allocation

**Autonomous Drone** — C++, Python, ROS2, Gazebo

## WORK EXPERIENCE

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### 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, contributing to innovative solutions and improvements.

### Zoox

Autonomous Software Tester

July 2022 - August 2024

- Leveraged Linux to diagnose and resolve issues with lidar, cameras, and radar, reducing downtime by 50% and improving overall system reliability.
- Conducted software operations to support vehicle functions and mission requirements.
- Assisted documentation and metrics collection to support operational efficiency and mission tracking.
- Enhanced the predictive modeling and decision-making process by collecting and responding to precise data.
- Operated and troubleshooted a fleet of over 200 autonomous vehicles.

## **Clark County Department of Environment and Sustainability**

Research Fellow

July 2023 - Dec 2023

- Utilized Python for data analysis, modeling, and visualization to derive meaningful insights from air quality datasets.
- Collaborated with cross-functional teams to integrate data analysis results into broader research objectives.
- Perform rigorous Quality Assurance (QA) on air quality data to increase accuracy and reliability of datasets by 7%.

## **University of Nevada, Las Vegas**

Research Assistant

January 2021 - July 2023

- Developed and implemented Python scripts to test and validate mathematical models of astrophysical outflows.
- Collaborated with interdisciplinary research teams to enhance accuracy and precision of astrophysical simulations.
- Applied data mining techniques to extract and analyze modeled data from a variety of stellar sources.
- Leveraged Python packages, including NumPy, SciPy, and Matplotlib, to analyze, visualize, and compare simulation data with real-world observations.

## **University of Nevada, Las Vegas**

Research Assistant

August 2020 - January 2021

- We prepared more than 1000 silicon chips for research following established lab procedures.
- Operated lab equipment to exfoliate graphite flakes of varying thicknesses onto silicon substrates.
- Employed optical microscopy techniques to measure and assess the thickness of 2D materials.
- Documented and analyzed experimental results to support ongoing research projects.