

Joshua Nelson

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TECHNICAL SKILLS

Skills: REST APIs, Python, Java, Go, SQL, C++, Git/GitHub/GitLab, Docker, Github Actions CI/CD, Linux / Unix
Tools: AWS, Django, MySQL / PostgreSQL / SQLite, MongoDB / Redis

EDUCATION

Bachelor of Science in Computer Science

GPA: 3.81

Grand Canyon University

Sept. 2023 – April 2027

- Emphasis in Big Data Analytics

EXPERIENCE

Freelance Web Infrastructure Engineer

May 2025 – July 2025

KCMusicStudio

Kansas City, MO

- Led the PHP 8.2/WordPress 6.6 infrastructure upgrade and hosting migration for a live e-commerce platform with **100+ active users**, ensuring zero data loss and less than 1 hour of downtime during migration
- Deployed staging environments for all three WordPress sites with manual sync workflows, enabling safe testing of plugin and theme updates and reducing **production deployment issues by 90%**
- Implemented daily offsite backups with 30-day retention and tested restore procedures, ensuring **100% recovery success** across 2 production environments and protecting e-commerce transaction data

President

April 2025 – Present

Canyon Artificial Intelligence Research

Phoenix, AZ

- Facilitated monthly organization-wide standups and coordinated workflows across multiple ongoing research projects, improving collaboration and accountability
- Led strategic planning that drove a **110% increase in membership**, expanding the organization from 20 to 42 active participants
- Launched **4 new research project initiatives**, broadening the scope of technical exploration and hands-on learning opportunities for members

Research Intern Project Lead

October 2024 – April 2025

Canyon Artificial Intelligence Research

Phoenix, AZ

- Implemented VOLO v4 object detection to recognize hand gestures from a distance of 25 feet, enhancing automated polling
- Analyzed feasibility of object detection on ESP-32, optimizing for low-memory inference
- Led a cross-functional team of four engineers, conducting bi-weekly stand-ups and designing a system to optimize workflows, resource allocation, and timely delivery

CERTIFICATIONS AND PROJECTS

Certifications

- **AWS Cloud Practitioner (07/08/24)**
- **AWS Solutions Architect Associate (06/17/25)**

AI LinkedIn Job Scout | *Go, Redis, Ollama*

July 2025 - August 2025

- Developed a job-resume comparison tool using concurrent Goroutines in Go, Redis for job caching, and Ollama for LLM-based analysis to efficiently process multiple job postings in parallel
- Integrated third-party job APIs to address LinkedIn's restricted scraping policies, enabling automated job retrieval and streamlined processing
- Implemented an end-to-end pipeline that generates a 0–100 resume-job fit score, produces improvement suggestions, and delivers ranked results via HTML email using an SMTP client

Full Stack Web App | *Python, Django, Docker, AWS*

August 2024 – September 2024

- Developed a full-stack web app capable of auto-scaling up to **10,000+** users simultaneously using Python and Django, enabling product managers to track RAID attributes
- Collaborated with product managers to gather user input, tailoring the app's functionality to real-world needs, increasing user satisfaction and effectiveness
- Containerized the app using Docker and deployed it on a set of EC2 Instances fronted by a load balancer to implement automated failover