

Joshua Duplaa

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EDUCATION

Texas Tech University, Lubbock, Texas
Whitacre College of Engineering

May 2025
GPA 3.3

B.S. Computer Science,

B.S. Mathematics - Concentration in Data Science

Certifications: AWS Cloud Practitioner CLF-C01, Azure Fundamentals AZ-900

EXPERIENCE

DevOps Engineer Intern II, ResMed
San Diego, California (Remote)

May 2024 - Aug. 2024

- Drove recovery efforts during the global CrowdStrike outage, which caused widespread Windows Machine failures. Manually recovered over 25 servers and developed an automated solution with a small team to restore the remaining network, ensuring operational continuity during a high-severity incident.
- Monitored and maintained multi-cloud infrastructure across AWS and Azure, proactively resolving incidents and optimizing performance to support resilient DevOps operations for production environments.
- Built a distributed Kubernetes training platform using Azure DevOps Pipelines and AKS, enabling a 12-person team to rapidly upskill and deploy clusters independently. This initiative reduced onboarding time and eliminated setup friction across ResMed/MatrixCare systems.
- Continued long-term infrastructure projects, deepening expertise in Cloud platforms, Kubernetes, container orchestration, cloud observability tooling, while expanding CI/CD pipeline capabilities.

Data Analyst, Texas Tech IMSE
Lubbock, Texas

Oct. 2023 - Jan. 2025

- Built and maintained 15+ interactive Power BI dashboards for IMSE and College of Engineering.
- Developed data models, visualizations, and ETL pipelines using Python, Pandas, DAX, and Power BI to transform financial data from MS SQL and Excel sources.
- Standardized data procedures and created data models relating to the department's budget, improving data comprehension and facilitating secure communication of sensitive information.

DevOps Engineer Intern, ResMed
San Diego, California (Remote)

June 2023 - Sept. 2023

- Automated Skilled Nursing Facility (SNF) server deployment using Ansible, Terraform, and custom scripts for Cloud deployment(Python, Bash, PowerShell).
- Built CI/CD pipelines to automate the testing, building, versioning, and deployment of Azure and AWS infrastructure using Terraform.
- Developed hands-on knowledge of TCP/IP networking, IP routing, and core technologies such as IP, TCP, Load Balancers, Firewalls, ACLs, DNS, and associated Cloud resources.
- Worked with project management tools such as Jira and Confluence. Followed Scrum and Agile methodologies. Gained 2nd in a company-sponsored cyber security Hackathon (CyberRange).

Undergraduate Research Assistant, Texas Tech Applied Vision Laboratory
Lubbock, Texas

Aug. 2022 - Jan. 2023

- Collected and segmented 100+ hours of footage to evaluate lab machine learning models for real-time image and video processing.
- Gained experience with neural networks, classification models, TensorFlow and Mask R-CNN.

Calculus II Tutor, Texas Tech TLPDC
Lubbock, Texas

Aug. 2022 - Jan. 2023

SKILLS

- **DevOps:** CI/CD, Terraform, Ansible, AWS, Azure, GCP, Docker, Container Orchestration (K8s), Git, BitBucket, Linux.
- **Programming:** Python, Bash, PowerShell, JavaScript/TypeScript, SQL, C, C++, R, Julia.
- **Web:** Node.js, ASP.NET, Django, Flask, React, Next.js, MUI. Built several scientific applications and CRUD APIs.
- **Data & AI:** Pandas, TensorFlow, Pytorch, Mask R-CNN, GPT/Copilot/Cursor/Codex, ETL pipelines, Annotation.
- **Languages:** Fluent in Portuguese; Conversational proficiency in Spanish, German and French.