

# Joshua Duplaa

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## EDUCATION

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<b>Texas Tech University</b> , Lubbock, Texas <i>Whitacre College of Engineering</i> <i>B.S. Computer Science,</i> <i>B.S. Mathematics - Concentration in Data Science</i> <b>Certifications:</b> AWS Cloud Practitioner CLF-C01, Azure Fundamentals AZ-900	May 2025 GPA 3.3
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## EXPERIENCE

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<b>DevOps Engineer Intern II</b> , ResMed <i>San Diego, California (Remote)</i>	May 2024 - Aug. 2024
<ul style="list-style-type: none"><li>• 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.</li><li>• Monitored and maintained multi-cloud infrastructure across AWS and Azure, proactively resolving incidents and optimizing performance to support resilient DevOps operations for production environments.</li><li>• 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.</li><li>• Continued long-term infrastructure projects, deepening expertise in Cloud platforms, Kubernetes, container orchestration, cloud observability tooling, while expanding CI/CD pipeline capabilities.</li></ul>	
<b>Data Analyst</b> , Texas Tech IMSE <i>Lubbock, Texas</i>	Oct. 2023 - Jan. 2025
<ul style="list-style-type: none"><li>• Built and maintained 15+ interactive Power BI dashboards for IMSE and College of Engineering.</li><li>• Developed data models, visualizations, and ETL pipelines using Python, Pandas, DAX, and Power BI to transform financial data from MS SQL and Excel sources.</li><li>• Standardized data procedures and created data models relating to the department's budget, improving data comprehension and facilitating secure communication of sensitive information.</li></ul>	
<b>DevOps Engineer Intern</b> , ResMed <i>San Diego, California (Remote)</i>	June 2023 - Sept. 2023
<ul style="list-style-type: none"><li>• Automated Skilled Nursing Facility (SNF) server deployment using Ansible, Terraform, and custom scripts for Cloud deployment(Python, Bash, PowerShell).</li><li>• Built CI/CD pipelines to automate the testing, building, versioning, and deployment of Azure and AWS infrastructure using Terraform.</li><li>• 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.</li><li>• 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).</li></ul>	
<b>Undergraduate Research Assistant</b> , Texas Tech Applied Vision Laboratory <i>Lubbock, Texas</i>	Aug. 2022 - Jan. 2023
<ul style="list-style-type: none"><li>• Collected and segmented 100+ hours of footage to evaluate lab machine learning models for real-time image and video processing.</li><li>• Gained experience with neural networks, classification models, TensorFlow and Mask R-CNN.</li></ul>	
<b>Calculus II Tutor</b> , Texas Tech TLPDC <i>Lubbock, Texas</i>	Aug. 2022 - Jan. 2023

## SKILLS

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- **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.