Joshua Duplaa

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EDUCATION

Texas Tech University, Lubbock, Texas   May 2025
Whitacre College of Engineering   *GPA 3.3*
B.S. Computer Science, B.S. Mathematics
Concentration in Data Science

Pontifical Catholic University of Peru, Lima, Peru   May - July 2019
Studied engineering ethics and Peruvian culture for a summer semester abroad.

Languages: Fluent in Portuguese; Conversational proficiency in Spanish, German and French.

EXPERIENCE

Data Analyst, Texas Tech IMSE   Oct. 2023 - Jan. 2025
Lubbock, Texas
- Student Assistant position where I developed and maintained several (15+) interactive PowerBI dashboards for the IMSE department and the TTU COE. Built out data models and ETL pipelines to visualize and transform data from MS SQL databases and Excel using Python, DAX, and PowerBI.
- I aided in data comprehension and communication, standardizing data procedures and creating data models relating to the office environment and department expenses/revenue.

DevOps Engineer Intern II, ResMed   May 2024 - Aug. 2024
San Diego, California (Remote)
- Continuation of the previous year's internship. I learned how to use containerization technologies and build CI/CD pipelines, monitoring cloud infrastructure health, and continued working with all the same technologies from the previous summer.
- Built a distributed Kubernetes training environment for my co-workers using Azure DevOps Pipelines and AKS (Azure Kubernetes Service). The training environment was needed to reduce the complexity of deploying kubernetes clusters on company networks/computers, aiding a team of 12 people learning how to use kubernetes effectively using ResMed Infrastructure.
- Monitored and maintained Cloud infrastructure on both AWS and Azure. On the frontlines during the CrowdStrike outage which caused widespread Windows Machine failures. Manually recovered over 25 servers and helped write the develop an automated solution to recover the rest of the network.

DevOps Engineer Intern, ResMed   June 2023 - Sept. 2023
San Diego, California (Remote)
- Automated infrastructure configuration and deployment for skilled nursing facilities(SNF) servers, using Ansible playbooks, Terraform, Python, Linux, virtualization, Bash, Batch, and Powershell scripting.
- Introduced to building CI/CD pipelines to automate the testing, building, versioning, and deployment of Azure and AWS infrastructure using Terraform.
- Developed an understanding of TCP/IP networking, IP routing, and core technologies such as IP, TCP, Load Balancers, Firewalls, ACLs, DNS, and associated Cloud resources.
- Introduced to SCRUM and AGILE development. Participated and placed 2nd in a company sponsored cyber security Hackathon (CyberRange).

Undergraduate Research Assistant, Texas Tech ECE   Aug. 2022 - Jan. 2023
Lubbock, Texas
- Undergraduate research assistant for the Applied Vision Laboratory (AVL) at Texas Tech.
- Responsible for collecting and segmenting 100+ hours of footage as test data and comparing it against the results from the lab's image processing machine learning model.

Calculus II Tutor, Texas Tech TLPDC   Aug. 2022 - Jan. 2023
Lubbock, Texas

PORTFOLIO & SKILLS

- Experienced building scientific applications, automation scripts, data pipelines, and full stack CRUD applications.
- API building with Django, Flask, and Node on the Server; Typescript, MUI, Next.js, and React on the client side.
- In depth AI and machine learning knowledge, as well as proficiency with AI tools (GPT, Cursor, Q, Co-Pilot etc.)

Projects, certificates and more information in my portfolio website: joshuaduplaaswe.web.app