

Joshua Duplaa

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EDUCATION

Texas Tech University, Lubbock, Texas
Whitacre College of Engineering
Dual Bachelor of Science in Computer Science and Mathematics
Concentration in Data Science

Dec 2024
GPA 3.1

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

May - July 2019

EXPERIENCE

Data Analyst, Texas Tech IMSE
Lubbock, Texas

Oct. 2023 - Present

- *Developing visualizations and maintaining PowerBI dashboards for the IMSE department in the Engineering college. Visualizations and transformation using Python, DAX, and libraries such as Seaborn and matplotlib.*
- *Student work position where I aided in data comprehension and communication, standardized data procedures and created data models for an office environment and department expenses/revenue.*

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

June 2023 - Sept 2023

- *Automated infrastructure configuration for skilled nursing facilities(SNF) servers, using Ansible-playbooks.*
- *Created Jenkins and Azure DevOps CI/CD pipelines, automated Azure and AWS infrastructure and resource deployment using Terraform.*
- *Developed Python, Bash, Batch, and Powershell scripting skills.*
- *Introduced to SCRUM and AGILE development. Participated and placed 2nd in a company sponsored cyber security Hackathon.*

Undergraduate Research Assistant, Texas Tech ECE
Lubbock, Texas

Aug. 2022 - Jan 2023

- *Undergraduate research assistant for the Applied Vision Laboratory (AVL) at Texas Tech.*
- *Responsible for collecting and segmenting hundreds of 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
Lubbock, Texas

Aug. 2022 - Jan 2023

TECHNICAL SKILLS AND CERTIFICATIONS

Programming and Infrastructure:

- *Python, Javascript, Java, Assembly(X86, AVR), C and C++. Embedded and IoT programming with AWS IoT Core, MQTT, ESP32 and Arduino. Experienced with Linux systems and virtualization.*
- *Infrastructure automation using Terraform(IaC) and Ansible Playbooks.*
- *Web Development with RESTful and HTTP APIs, MERN stack, Firebase, AWS/Azure Resources, Django. Kubernetes containerization. Data visualization reports and dashboards with Power BI.*
- *Version control with Git/Github and CI/CD pipelines(Jenkins/Azure DevOps).*

Certifications:

- *Cloud Certified: AWS Cloud Practitioner (CLF-C01), Microsoft Azure Fundamentals (AZ -900).*
- *Udemy Web Development Bootcamp by Colt Steele*

AWARDS AND ACTIVITIES

BEST & FIRST Robotics Associations, HACKWESTX Hackathon
Volunteer and organizer, 3rd Place Winner in RoboWars Hackathon(Dec. 2022)

Jan 2022 - Present

TTU Linux and Open Source Organization Sponsored by Unicage
Executive Program Officer, organized meetings and programming workshops.

Aug 2023 - Present

Professional Portfolio -
JoshuaDuplaaSWE.web.app