

Joshua Duplaa

Seattle, WA • joshuaduplaa@outlook.com • (806) 283-4934

[GitHub](#) • [LinkedIn](#) • [Portfolio](#)

EXPERIENCE

Software Engineer, Mercor

Feb. 2026 - June 2026

Seattle, Washington (Remote, Contract)

- Orchestrated agentic coding workflows with Claude Code to reproduce, diagnose, and fix issues across unfamiliar repositories, reviewing agent-generated patches for correctness, regressions, and test coverage before submission.
- Developed 35+ Python fixes and test suites across 25 repositories to train AI coding models (99%+ quality rating), written without AI assistance using only official documentation.
- Evaluated AI-generated code, identifying functional, architectural, and edge-case issues and validating fixes through test suites and code review.
- Annotated code and images for reinforcement learning pipelines, applying detailed rubrics to support AI model training and evaluation.

DevOps Engineer Intern II, ResMed

May 2024 - Aug. 2024

San Diego, California (Remote)

- Restored 25+ Windows servers during the global CrowdStrike SEV-1 outage and helped automate recovery for the remaining fleet, reducing downtime.
- Monitored production multi-cloud infrastructure across AWS and Azure, using Azure Monitor and Kusto (KQL) to diagnose incidents and improve service reliability.
- Built a self-service Kubernetes training platform on AKS with a supporting API and Azure DevOps pipelines, streamlining onboarding and cluster deployments for a 12-person team.

Data Analyst, Texas Tech IMSE

Oct. 2023 - Jan. 2025

Lubbock, Texas

- Built and maintained 15+ interactive Power BI dashboards used across IMSE and the College of Engineering for departmental reporting.
- Designed and standardized data pipelines in Python, Pandas, SQL, and DAX, turning ad hoc reporting into repeatable, validated workflows.

DevOps Engineer Intern, ResMed

June 2023 - Sept. 2023

San Diego, California (Remote)

- Automated Skilled Nursing Facility (SNF) server deployments with Ansible and Terraform, making deployments consistent and repeatable as infrastructure as code.
- Built CI/CD pipelines using Azure DevOps to test, version, and deploy infrastructure as code with Terraform.

Undergraduate Research Assistant, Texas Tech Applied Vision Laboratory

Aug. 2022 - Jan. 2023

Lubbock, Texas

- Built Python data pipelines to collect, segment, and preprocess 100+ hours of video for evaluating real-time computer vision models.
- Contributed to development and evaluation of Mask R-CNN models in PyTorch, analyzing model performance on real-world video data.

EDUCATION

Texas Tech University, Lubbock, Texas

May 2025

Whitacre College of Engineering

B.S. Computer Science; B.S. Mathematics (Double Degree, Data Science concentration)

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

SKILLS

Programming: Python, TypeScript, Rust, C++, SQL, Bash, PowerShell

AI/ML: Claude Code, Agentic Workflows, AI Coding Agents, LLM Evaluation, Reinforcement Learning, PyTorch

Testing & Software Engineering: Automated & Regression Testing, Debugging, Code Review, OOP, Version Control

Cloud & Infrastructure: AWS, Azure, GCP, Kubernetes, Docker, Terraform, Ansible, CI/CD, Azure DevOps, Azure Monitor, Prometheus, Grafana, Distributed Systems

Backend & Data: FastAPI, Django, REST APIs, MongoDB, Pandas, ETL, Data Pipelines

Languages: English (Native), Portuguese (Fluent), Spanish (Professional), French (Professional), German (Professional)