

NOAHIE ENCARNACION

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EXPERIENCE

Southwest Airlines

Software Engineer

Remote

Nov 2023 - Present

- Powered communications for ~90K employees and contractors by engineering an event-driven notification platform to ingest, transform, and route ~80K daily record changes from Kafka to Everbridge
- Led a 4-engineer team to ship the platform from concept to production in 6 months, owning the research, requirements gathering, design, and architecture while coordinating delivery across 4 partner teams
- Cut infrastructure costs by ~95% (~\$100K/yr) by replacing on-prem servers with serverless AWS architecture
- Recovered from a global vendor outage with zero data loss by serving as primary on-call incident contact and vendor liaison, briefing directors and senior managers across the org, and leading the post-incident review
- Closed a security gap exposing ~200 separated employees to confidential notifications by building a reconciliation service to diff the platform against Workday as the system of record and purge stale accounts
- Enabled ~300 responders to coordinate during emergencies by developing the React UI, FastAPI layer, and Python backend architecture of Southwest's FAA-mandated Emergency Response (ER) platform
- Kept the ER platform's data in sync with ~1,200 records daily by building a pipeline to ingest, transform, and consolidate 3 upstream sources into single user profiles
- Accelerated a 5-engineer team's velocity by ~70% and cut token spend by ~50% by building a self-improving dev platform on Kiro to automate the SDLC with human-in-the-loop approval and intelligent agent routing

DevOps Engineering Intern

May 2023 - Aug 2023

- Delivered weather data to ~50K employees by integrating OpenWeather into an operations application
- Reduced external API calls by ~60% and their cost by caching forecasts in ElastiCache with a 15-min TTL

TDS Telecommunications

DevOps Engineering Intern

Remote

Jun 2022 - Mar 2023

- Improved Salesforce user provisioning time by ~90% across 7 environments and eliminated ~5 hrs/week of manual admin work by automating account creation, deactivation, and permission management
- Restored production Salesforce for 1,000+ users from failed after-hours deployments as the on-call engineer

EDUCATION

Georgia Institute of Technology - M.S. Computer Science (4.0 GPA)

Expected Dec 2028

Oregon State University - B.S. Computer Science

Aug 2023

PROJECTS

CreditChecker ([Live Demo](#))

- Built a multi-agent LangGraph system to predict credit approval using an XGBoost model with LangChain agents explaining decisions via RAG over a pgvector store, judged for accuracy by a panel of agents
- Deployed on EKS via Terraform with LangFuse tracing, MLflow champion/challenger retraining on a Kubernetes CronJob, and an Airflow-orchestrated PySpark pipeline on Databricks with Unity Catalog

AI Dev Studio ([Live Demo](#))

- Created an AI-powered platform using Claude on Bedrock to let non-technical users generate, preview, and deploy websites from natural language prompts with real-time code editing and one-click publishing

SKILLS

Languages: Python/FastAPI, Go, TypeScript/React, Bash, SQL

Cloud & DevOps: AWS, Kubernetes, Terraform, Docker, Kafka, GitLab, GitHub Actions

AI & ML: LangGraph, LangChain, Claude, Kiro, Bedrock, RAG, scikit-learn, pandas

MLOps & Data: MLflow, LangFuse, Databricks, pgvector, PySpark, Airflow

CERTIFICATIONS

AWS Certified Machine Learning Engineer - Associate | Amazon Web Services | Issued Jan 2025

AWS Certified Solutions Architect - Associate | Amazon Web Services | Issued Nov 2024

AWS Certified Developer - Associate | Amazon Web Services | Issued Oct 2024