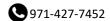
# Quang Dang



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#### **SUMMARY:**

Aspiring Cloud Engineer skilled in designing scalable, automated, and data-driven solutions. Expertise in cloud infrastructure optimization, Continuous Integration/Continuous Deployment (CI/CD) pipelines, and machine learning (ML) model development to address real-world challenges.

#### **SKILLS:**

- Software Development: Python, C/C++, Bash, Java, JavaScript, HTML/CSS, SQL
- Cloud & DevOps: Linux, GitHub, Jenkins, Ansible, Terraform, Docker, Kubernetes, AWS (Lambda, SageMaker, CodePipeline, CodeBuild, ECR, EKS, DynamoDB, Bedrock)
- ML/AI Engineering: PyTorch, Scikit-Learn, Regression, Classification, Reinforcement Learning, Neural Network (CNN, LSTM, GAN), Natural Language Processing (Word Embedding, Sequential Labeling, Transformer)

## **EXPERIENCE:**

# University of Oregon - Research Assistant / Teaching Assistant

Eugene, OR, USA | Sep 2022 - Dec 2024

- Conducted cutting-edge research in Federated Learning for Distributed Edge Systems, orchestrated ML models across 20 edge nodes using Kubernetes.
- Developed anomaly detection models on real-world telecom packets and optimized them using Neural Architecture Search, achieving a 93% detection rate for malicious IoT devices.
- Taught Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), and web design in C/C++, Python, and JavaScript to 400+ students across 5 computer science courses.
- Conducted coding interviews and provided constructive feedback for 50+ students, enhancing their technical skills.

# Samsung Electronics - Embedded Software Engineer

Ho Chi Minh, Vietnam | Mar 2021 - May 2022

- Designed and debugged firmware for ARM Cortex-M embedded systems using Keil uVision, optimizing cooling and defrosting cycle of 30+ refrigerator models.
- Automated test case management with **Jenkins**, improving **A/B testing** efficiency for refrigerator systems.
- Integrated Wi-Fi modules and AI models on Bespoke smart refrigerators, boosting energy efficiency by 21% across 2 million units.

## PROJECTS:

# MultiCloud, DevOps & AI E-Commerce Platform

Bash, YAML, Terraform, Docker, Kubernetes, AWS (CodePipeline, ECR, EKS, Lambda, DynamoDB, Bedrock), Google BigQuery, Azure Text Analytics | [Code] | 2025

- Automated infrastructure provisioning with Terraform (IAM roles, EC2 instances, DynamoDB tables) on AWS
- Containerized backend and frontend services with Docker and deployed via Kubernetes on AWS EKS, ensuring a scalable and resilient system.
- Built a CI/CD pipeline using AWS CodePipeline and GitHub for automated deployments.
- Deployed AI-driven customer support and recommendation services using AWS Bedrock and OpenAI Assistants.
- Integrated Google BigQuery for backup storage and Azure Text Analytics for ticket sentiment analysis in a multicloud architecture.

# **Cloud Storage Web Application**

Bash, Flask, Nginx, AWS (S3, EC2, Lambda) | [Code] | 2024

- Developed a Flask application for file uploads/downloads (up to 200MB) to AWS S3 across EC2 instances in 3 Availability Zones, enhancing availability.
- Configured Nginx as a load balancer for health checks and traffic management, achieving 99% uptime.

## **MBTI Classifier from Online Posts**

Python, NLP, CNN, Transformer | [Code] | 2023

- Tokenized Reddit posts using Word2Vec for NLP preprocessing.
- Built CNN and DistilBERT models to classify MBTI personality types, achieving an F1-score of 0.77 across 16 classes.

# **Face Aging Model**

Python, PyTorch, GAN | [Code] | 2022

• Fine-tuned an Attention-guided GAN on the Flickr-Faces-HQ Dataset to modify age, gender, and glasses attributes.

# **EDUCATION:**

University of Oregon – Master of Science in Computer Science

Eugene, OR, USA | Sep 2022 - Dec 2024

North Dakota State University - Bachelor of Science in Electrical Engineering

Fargo, ND, USA | Aug 2018 - May 2020

## **CERTIFICATIONS:**

- AWS Certified Solutions Architect Associate (Feb 2024)
- AWS Certified Machine Learning Engineer Associate (Mar 2025)
- AWS Certified DevOps Engineer Professional (In Progress)