

Quang D. Dang



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SUMMARY:

Aspiring Cloud Engineer with expertise in developing scalable, automated and data-driven solutions. Proficient in optimizing **cloud infrastructure**, leveraging **CI/CD methodologies**, and building **ML models** to solve 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, ...)
- **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

Sep 2022 - Dec 2024

Research Asistant/ Teaching Assistant

Eugene, OR, US

- 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 telecom packets with a 93% detection rate for malicious IoT devices.
- Instructed DSA, OOP and web designing concepts in **C/C++, Python, and JavaScript** for 400+ students in 5 CS courses.
- Conducted **coding interviews** and provided constructive feedback for 50+ students.

Samsung Electronics

Mar 2021 – May 2022

Embedded Software Engineer

Ho Chi Minh, Vietnam

- Designed and debugged firmware for **ARM Cortex-M** embedded systems using **Keil uVision**, improving the cooling and defrosting cycle of over 30 refrigerator models.
- Automated and managed test cases for refrigerator systems using **Jenkins**, ensuring efficient and reliable **A/B testing**.
- Implemented **Wi-Fi module** and **AI model** on Bespoke smart refrigerators, improving the energy efficiency of over 2 million units by 21%.

SPACHES Research Lab

Jun 2019 – May 2020

Embedded Software Engineer Intern

Fargo, ND, US

- Programmed **ESP32** SoC microcontroller and soldered surface-mount ICs
- Developed an **Android** application with **ARIMA** model to detect and notify REM sleep, achieving 88% accuracy

PROJECTS:

Cloud Storage Web Application | Bash, Flask, Nginx, AWS S3, EC2 | [\[Code\]](#)

2024

- Developed **Flask** app that can upload/download files (up to 200MB) to/from a **AWS S3** bucket via different **AWS EC2** instances from 3 different AZs for improved availability
- Configured **Nginx** as a load balancer for server health check and traffic control, achieving 99% uptime

MBTI Classifier from Online Posts | Python, NLP, CNN model, Transformer | [\[Code\]](#)

2023

- Utilized **Word2Vec** model to tokenize words from Reddit posts
- Implemented **CNN** and **DistilBERT** models to classify MBTI personality types, resulting an F1-score of 0.77 and recall of 0.78 across 16 classes

Face Aging Model | Python, PyTorch, GAN model | [\[Code\]](#)

2022

- Fine-tuned an **Attention-guided GAN** model trained on Flickr-Faces-HQ Dataset to modify age, gender and glasses

EDUCATION:

University of Oregon

Sep 2022 - Dec 2024

Master of Science in Computer Science

Eugene, OR, US

North Dakota State University

Aug 2018 – May 2020

Bachelor of Science in Electrical Engineering

Fargo, ND, US

CERTIFICATIONS:

- AWS Certified Solutions Architect – Associate (Feb 2024)