

Dang Tran

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Ho Chi Minh City, Viet Nam

PROFESSIONAL SUMMARY

Backend Software Engineer with 6+ years of experience building web platforms and data pipelines on Azure and AWS. Currently leading a **5-person team** across two projects at MODEC, where I **cut monthly cloud costs by 64%**, made data pipelines **4–8x faster**, and **reduced file load time by 80%**. Experienced in legacy system migration and performance tuning.

PROFESSIONAL EXPERIENCE

- **MODEC**  Apr 2025 – Present
Ho Chi Minh, Viet Nam
 - Lead a **5-person team** across two projects (Bing, Nemo Catalog), both coding and planning the team's work
 - Made key technical decisions on architecture, infrastructure, and data pipeline design
 - Worked with stakeholders to define requirements, plan sprints, and deliver on time
 - **Technologies:** Python, FastAPI, PostgreSQL, MySQL, Redis, Terraform, Azure (AKS, Container Apps, AI Search)
- **Employment Hero**  Sep 2021 – Mar 2025
Ho Chi Minh, Viet Nam
 - Researched technical options for new projects and recommended the best approach
 - Worked with Product Owners to clarify and prioritize requirements
 - Led project planning and estimation, delivering on time across many releases
 - **Fixed N+1 query problems** on critical endpoints, cutting the number of database queries per request
 - **Technologies:** Ruby on Rails, React, PostgreSQL, Redis, AWS, Sidekiq, Kafka, gRPC
- **East Agile**  Jan 2020 – Sep 2021
Ho Chi Minh, Viet Nam
 - Worked directly with clients to gather requirements and deliver software that fit their needs
 - Owned projects from requirements through development and deployment
 - Built features end to end, across backend and frontend
 - Managed deployments on AWS S3 with a reliable, repeatable process
 - **Technologies:** Node.js, AWS, PostgreSQL, React

KEY PROJECTS

- **Bing (MODEC)**
FastAPI | MySQL | Azure AI Search | AKS | Terraform
 - Internal document search platform: collects records and documents from many databases and blob storage, and makes them searchable with Azure AI Search
 - Led delivery for a 5-person team while working directly on infrastructure and pipelines
 - Split a shared dev/prod setup into **three separate environments** (dev, UAT, prod) using Terraform
 - Made data pipelines **4–8x faster** by running them in parallel; they sync **tens of thousands of records and documents** every day
 - Removed unused resources and resized the rest, **reducing monthly cloud costs by 64%**
 - **Reduced file load time by 80%**
- **Nemo Catalog (MODEC)**
FastAPI | PostgreSQL | Azure Container Apps | Data Pipeline
 - Internal data catalog used by **thousands of employees** to search datasets and request access
 - Built the application from the ground up, cutting the time to find and request data **from minutes to seconds**
 - Designed and built a data pipeline that syncs datasets from multiple databases and blob storage accounts
 - Led development end to end, from gathering requirements to deployment
- **Canada Costing Service (Employment Hero)**
Ruby | State Machines | Event Processing | Lazy Computation
 - Led development of a Ruby gem that calculates Canadian payroll in line with local regulations
 - Designed a test helper that made tests faster to write and easier to read and maintain
 - Used state machines, event-based processing, and lazy computation to improve performance

• **Legacy System Migration (Employment Hero)**

Rails | React | PostgreSQL | Migration Strategy

- Moved the **entire Performance Review module** (review templates, review cycles, completing and submitting reviews) from the legacy stack to the modern stack
- Reviewed all business logic, including undocumented rules, to build a complete migration plan
- Planned the migration with timelines and data converters so existing data keeps working
- Fixed long-standing bugs and made the feature more stable after migration
- **Reduced storage usage by 30%** by cleaning up and removing duplicate data
- Managed the rollout, tracked defects, and delivered improvements after migration

• **Beafar Gallery App (East Agile)**

Node.js | AWS | PostgreSQL | QR Code Integration

- Built a gallery-sharing app with image upload, management, and sharing by QR code, using AWS for storage and deployment

EDUCATION

• **Ho Chi Minh City University of Technology (HCMUT)**

2017 – 2021

Bachelor of Computer Science - Honor Program

Ho Chi Minh City, Viet Nam

- **GPA: 8.23/10.0** (Very Good)

TECHNICAL SKILLS

- **Languages:** Python, Ruby, JavaScript, TypeScript, SQL
- **Backend Frameworks:** Ruby on Rails, FastAPI, Node.js
- **Frontend Technologies:** React
- **AI Tools:** Claude Code, GitHub Copilot, Cursor
- **Databases:** PostgreSQL, MySQL, Redis
- **Cloud & Infrastructure:** AWS (S3, Route53, ECS), Azure (AKS, Container Apps, AI Search, Blob Storage, Entra ID), Terraform, Docker, Kubernetes
- **DevOps & Tools:** Git, CI/CD, Kafka, Sidekiq, gRPC
- **Methodologies:** Agile, Scrum, Test-Driven Development

ACHIEVEMENTS & RECOGNITION

• **3rd Place (Team) - Pascal Algorithm Contest**

2019

Bach Khoa Algorithm Club (HCMUT) and TEKO

- Competed in 3 rounds of algorithmic and computer science challenges as part of a team

ADDITIONAL INFORMATION

Languages: Vietnamese (**Native**), English (**Working Proficiency**)

Interests: System Architecture, Performance Optimization, Cloud Technologies, Open Source Contribution