

Dang Tran

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Ho Chi Minh City, 71300, Viet Nam

PROFESSIONAL SUMMARY

Backend Software Engineer with 5+ years of experience in web development and **cloud technologies**. Proven track record in **system optimization**, **legacy system migration**, and **performance tuning**. Strong **cross-functional collaborator** who delivers reliable, maintainable software solutions.

PROFESSIONAL EXPERIENCE

- **MODEC**  Apr 2025 – Present
Ho Chi Minh, Viet Nam
 - **Led development** of two projects (Bing, Nemo Catalog), balancing hands-on engineering with team coordination and task prioritization
 - **Drove technical decisions** on architecture, infrastructure, and data pipeline design
 - **Collaborated with stakeholders** to define requirements, plan sprints, and ensure on-time delivery
 - **Technologies:** FastAPI, PostgreSQL, MySQL, Azure Cloud
- **Employment Hero**  Sep 2021 - Mar 2025
Ho Chi Minh, Viet Nam
 - **Led technical investigations** for new projects, evaluating feasibility and recommending best practices
 - **Collaborated with Product Owners** to clarify, refine, and prioritize project requirements
 - **Led project planning and estimation**, ensuring on-time delivery across multiple releases
 - **Migrated key features** from legacy system to modern stack, improving **performance and maintainability**
 - **Optimized SQL queries**, reducing execution time for critical operations
 - **Technologies:** Ruby on Rails, React, PostgreSQL, Redis, AWS, Sidekiq
- **East Agile**  Jan 2020 - Sep 2021
Ho Chi Minh, Viet Nam
 - **Collaborated directly with clients** to gather requirements and deliver tailored software solutions
 - **Owned full project lifecycle**, from requirement analysis through development and deployment
 - **Built end-to-end features** across backend and frontend, ensuring consistent integration
 - **Managed deployments** on AWS S3, maintaining reliable and repeatable delivery workflows
 - **Technologies:** Node.js, AWS, PostgreSQL, React

KEY PROJECTS

- **Bing (MODEC)**
FastAPI | MySQL | Azure | Data Pipeline
 - **Led project delivery**, coordinating tasks across the team while contributing directly to infrastructure and pipeline work
 - **Infrastructure as Code:** Provisioned scalable infrastructure, reducing configuration drift across environments
 - **Pipeline Reliability:** Improved data pipeline performance and observability, streamlining the deployment lifecycle
 - **Cost Optimization:** Decommissioned underutilized resources and right-sized infrastructure, reducing monthly cloud costs
- **Nemo Catalog (MODEC)**
FastAPI | PostgreSQL | Azure | Data Pipeline
 - **Led end-to-end project development**, from requirements gathering through deployment, while managing task allocation
 - **Built** a user-facing application from the ground up to streamline internal data search and **access request workflows**
 - **Designed and implemented a data pipeline** to synchronize datasets across systems reliably
 - **Optimized file loading**, achieving an **80% reduction** in load time
- **Canada Costing Service (Employment Hero)**
Ruby | State Machines | Event Processing | Lazy Computation
 - **Led development** of a Ruby gem for Canadian payroll calculation, ensuring **compliance with local regulations**
 - **Designed a test helper** that improved test speed, readability, and maintainability
 - **Applied** state machines, event-based processing, and lazy computation for **performance optimization**

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

Rails | React | PostgreSQL | Migration Strategy

- **Migrated core features** from legacy stack to modern stack, improving **performance and maintainability**
- **Audited all business logic**, including undocumented rules, to create a comprehensive migration plan
- **Developed migration strategy** with timelines and data converters for **forward compatibility**
- **Eliminated legacy bugs** and improved feature stability post-migration
- **Reduced storage usage by 30%** through data cleanup and deduplication
- **Managed rollout plan**, tracked defects, and delivered post-migration enhancements

• **Beafar Gallery App (East Agile)**

Node.js | AWS | PostgreSQL | QR Code Integration

- **Developed** a gallery-sharing application with image upload and management capabilities
- **Implemented** gallery creation and sharing via QR codes
- **Leveraged AWS services** 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

- **Backend Frameworks:** Ruby on Rails, FastAPI, Node.js
- **Frontend Technologies:** React, JavaScript, TypeScript
- **AI tools:** Claude Code, Github Copilot, Cursor
- **Databases:** PostgreSQL, Redis, Query Optimization
- **Cloud & Infrastructure:** AWS (S3, Route53, ECS), Azure, Docker
- **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 TEK0

- **Competed** in 3 rounds of algorithmic and computer science challenges as part of a team
- **Recognized** for strong teamwork and problem-solving skills in a competitive academic setting

ADDITIONAL INFORMATION

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

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