

An - Tran Cong Viet

Fullstack Web Engineer

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SKILLS

Programming Languages: JavaScript/TypeScript, Python, Go, Rust, Java, Ruby
Frontend Web Framework: React.js, Next.js, Vue.js, Svelte
Backend Framework: Express.js, Nest.js, FastAPI, Rails, Django, Flask
Data Technology: PostgreSQL, MongoDB, DynamoDB, Redis, Firebase, Supabase, RabbitMQ
Operational Technology: Docker, Kubernetes, Helm, Ansible
System Design: Scalability Design, Microservice, Serverless
Soft Skills: Technical Leadership, Project Management, Mentoring, LLM utilization

EDUCATION & CERTIFICATION

AWS Solutions Architect - Associate	2024 - 2027
GCP Cloud Architect - Professional	2024 - 2026
GCP Cloud Developer - Professional	2024 - 2026
LFX Certified Kubernetes Administrator	2024 - 2026
BSc. Computer Science, Vietnam National University - School of Engineering and Technology	2019 - 2023
IELTS - Band 8.0	2018 - 2020
Vietnam National Olympiad in Informatics - Silver prize	2016

EXPERIENCE

Backend/DevOps Engineer	<u>VMO Holding</u>	May 2024 - Feb 2025
<ul style="list-style-type: none">• Lead developer in team of 6, building 4 Node.js/Nest.js microservices, hosted on AWS cloud infrastructure.• Established convention, project structure for the team, ensuring the code are consistently formatted & linted using common static analysis tools such as Prettier, ESLint and SonarQube.• Maintain codebase with 95% line coverage by hosting strict testing policy and hosting peer code review.• Organized Git workflow following the Gitflow convention for controlled development & release cadence.• Deployed application on multiple environment for development, staging, production following the release procedure.• Supported the integration process of the frontend team, by providing autogenerated OpenAPI documentations and comprehensive API endpoints testing as a form of documentation.• Developed fine-tuned Docker image for all 4 microservices, keeping the image size under 300MB and amortized build time under a minute. Package services using Helm to be deployed on HA Kubernetes clusters.• Achieved under 10 minutes, zero toil deployment by implementing CI/CD pipeline on Bitbucket.• Reduced incident response time from days to hours by instrumenting tracing & observability with DataDog.		
Fullstack Technical Lead	<u>CitizenDev Agency</u>	Mar 2022 - Feb 2024
<ul style="list-style-type: none">• Led and mentored a development team of 10 software engineer, achieving 90% successful project delivery rate across 10+ international projects.• Developed internal application for enterprise clients. Notably: Insurance Australia Group, FWD, Telenet Belgium.• Architected & developed solution by employing modern web technologies: React.js, Vue.js, Next.js, Nest.js, FastAPI.• Oversaw & support deployment and operation of services, with a focus on scalability and stability.• Improve development velocity by 30% and reduce incident rate by 20% throughout the course of 1 years, by establishing technical standards and best practices that improved development velocity by 30%.• Maintained code quality without compromising on development speed, by organizing peer code review, employing static analysis and keeping comprehensive automated test suites.• Led and organize multiple weekly knowledge sharing sessions across teams.		

- Develop crowdsource data mining platform for collecting audio sample, enriching the audio synthesis dataset.
- Serve peak 700-1000 concurrent user actively uploading data, using Celery + Flask to serve the API & process long running tasks asynchronously.
- Transcode audio snippet into FLAC using ffmpeg for lossless compression.
- Collected ~6TB of raw audio throughout 2 month of collection. Stored and backup this data to 3 different sites.
- Deployed Speech Synthesis Neural Network models on edge computing devices (automobile infotainment system), with constrained hardware resource. Used as a basis for production model on Vinfast cars model.
- Cut down model latency from 15s to ~1200ms using a streaming inference method for synthesizing audio chunks
- Reduced perceived audio jags between chunks from 85% to $\leq 10\%$ using a novel method of overlap & crossfade.

PROJECTS

Rental Property Management System

Telenet Belgium (Remote)

- Led, managed & mentored 12-person, full-stack team to develop a comprehensive platform for management of housing properties. Features included: properties overview, contract management, payment/financial overview, tenant communication, etc.
- **Key technologies:** Vue.js, Express.js, PostgreSQL, RabbitMQ, Kubernetes.
- Architected the system design, with a high emphasis in durability & stability. The backend is deployed in a highly-available, 3-master, physically distributed Kubernetes cluster.
- Collaborated with SRE to ensure 99.99% data durability and $RPO \leq 1hr$ on the primary PostgreSQL cluster, by employing 2 replicated backup servers. Ensure the backup is stored using the 3-2-1 principle.
- Maintained code quality & release cadence by employing strict code review process. Employed CI/CD for automatic testing & deployment.
- Supported frontend team to integrate with backend endpoints. Provide comprehensive documentations by employing autogenerated OpenAPI specification.

Construction Bidding Marketplace

UAE Construction Firm (NDA - Remote)

- Led, managed & mentored 6-person team to develop an automated platform for construction firms to prepare, submit, negotiate price for construction tendering process.
- **Key technologies:** React.js, Nest.js, PostgreSQL, RabbitMQ, Kubernetes, AWS
- Architected & Implemented the computation module, allowing a spreadsheet-like UX to calculate quotes, with complex formulas and variables.
- Achieved $\leq 1.0s$ perceived update time for formulas, by employing a combined approach of lazy backend update & localized frontend change propagation.
- Implemented notification dispatch pipelines efficiently in less than 1 week by integrating with Novu, a self-hostable notification engine.
- Improved full-text searching speed to under 250ms and search query flexibility by 200% in less than 2 weeks, by employing Meilisearch, a Rust-based full-text search engine with sensible default and wide languages support.

Internal LLM Workflow Builder

Insurance Australia Group (Remote)

- Led, managed & mentored 4-person team to develop a LLM workflow management system, to allow enterprise personnel to employ LLM in analyzing & composing internal documentation.
- Developed the Canvas GUI using React.js as a drag-and-drop tool for creating and managing AI workflows. Allowed 75% out of 20 tested company personnel to comfortably use the application in 1 week of training
- Implemented SSO solution, backed by Azure AD for fine grained permission control
- Deployed self-hosted LLM based on open-source/open-weight architectures such as Llama, Qwen, Phi, Mistral
- Designed connector to access enterprise data, stored in SharePoint, Confluence, and databases