Hoai Thanh Nguyen

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EDUCATIONS

Post and Telecommunications Institute of Technology, Hanoi *Aug 2018 - Feb 2023*
Engineer's Degree on Software Engineering

GrapeSEED Vietnam *Jun 2019 - Mar 2022*
English Teacher for the GrapeSEED English Program

NOTABLE CERTIFICATES

Test of English for International Communication (TOEIC) *Oct 2023 - Oct 2025*
970/990 scored

AWS Certified Solutions Architect - Associate (SAA-C03) *Aug 2024 - Aug 2027*

Oracle Certified Professional: Java SE 17 Developer (1Z0-829) *Nov 2024 - Lifelong validity*

SKILLS & INTERESTS

- Proficient in Java 8+ and the Spring Framework ecosystems, Maven, Message Queues, Caching Components...
- Interested also in DevOps stuff, Linux, K8s Rancher stack, Helm, Gitlab CICD, Ansible...
- Familiar with Frontend Development, using Vue/Nuxt3, React, Typescript...
- Native speaking level in English, Vietnamese. Elementary conversational level in German

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PROFESSIONAL EXPERIENCE

CompaxDigital *(Austrian BSS/CRM Product Company)* *Sep 2023 - Present*

- Involved in the optimizations, including SQL optimizing, code analyzing (using jProfiler) to observe and improve the performance of many modules by multiple folds, most importantly the "Rating" module. Subconsciously developed a framework for detecting throttles and bottle-necks in applications
- Contributed to a few internal tools, most notably the Entity/Enum generator that automates the process of generating @Entity classes from the structure of the database tables, this helps improving the develoment process by a ton. Imagine not having to waste time for writing new @Entity classes or when the database DDL changed
- Understand Spring Framework components to their core, implemented alot of the helpers that improve and make the developer experience easier for everyone (E.g: Generic JDBC Query Builder for performance's sake, Generic Specification API for JPA Querying, AOP Components...)
- Currently working on AAX4 - the next generation of Compax' BSS product. Responsible for building the fundamental structure of the project in the resource server and authorization server with OAuth2 OIDC flow
- Had a hand also in the Frontend Development with Nuxt3, responsible for the setting up WebSocket communication and connection management between Browser to Server and also Server to Server
- Worked with automation test suites for some modules and flows, with Cucumber and Jenkins pipelines, to make sure no bad bug goes slipped through unnoticed

PiraGo VietNam Co., Ltd *(Vietnamese IT Outsourcing Company)* *Nov 2022 - Sep 2023*

- Being in the outsource Backend Developer team mainly using Java to develop features for LOTTE - a client, responsible for building the fundamental structure of the project
- Notable features built: Data synchronization with external systems module, with cron scheduling, fault tolerance mechanism. Data Import. Report Data Export...

Giaohangtietkiem *(Vietnamese Logistics Product Company)*   *Apr 2022 - Nov 2022*

- Being in a team that built an accounting system/software for internal use of the company. Have a hand in developing features that required extensive knowledge around accounting and taxing business logic
- Learn a lot about code structure, how to utilize different layers, different design patterns to make the code cleaner and more performant

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PERSONAL PROJECTS

Kubernetes Lab *(https://github.com/thanhleothanh/k8s-lab)*

- Automated a high availability RKE2 Kubernetes cluster deployment with Ansible, Helm, leveraging Kube-VIP, Ingress Nginx Controller, Rancher, HAProxy, and Keepalived for high availability guarantee

Infrastructure Docker Stack *(https://github.com/thanhleothanh/infra-docker-stack)*

- Sometimes a kubernetes cluster is overkill if the system only has a few services, in those cases, a simple Docker Swarm can already fulfill the job
- This automated a simple multi-host cluster using Docker Swarm with Ansible, Traefik as the reverse proxy acting as the main entrypoint to the cluster, Portainer as the Rancher alternative for container management
- This infrastructure setup really suits for being development environment in IT Outsourcing companies. Multiple independent applications can be hosted on the same infrastructure, reusing infrastructure is a huge benefit with this pattern