# **HOANG MINH THANH**



**Software Engineer** 

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**Summary**: I'm studying postgraduate student at the University of Science, have solid background knowledge about OOP and Data Structure. Proficient Python, Golang, C++, experienced in Web Development, CDN, AWS, a bit of DevOps. With over 4<sup>years</sup> working in industry as software engineer, an enthusiastic about coding, I'm willing to devote all my productive time and effort to work.



**VNU-HCM, University of Science** 

Ho Chi Minh City, Vietnam

Sep. 2016 ~ Sep. 2020

• Bachelor in Computer Science (GPA: 8.2 ~ 3.3/4.0) - Thesis: Link Prediction in Knowledge Graph

VNU-HCM, University of Science

**Ho Chi Minh City, Vietnam** 

Oct. 2021 - Now

• Master in Computer (Graduate in 2023)

# X SKILLS

#### 1. KNOWLEDGE & CONCEPT

- Background: Solid Data structure and Algorithm, OOP, Design Pattern
- English: proficient English for working communication, ability to self-study and research
- Strong AWS: EC2, Route53, S3, Kinesis, DynamoDB, VPC, StepFunc, Elasticsearch, boto3, ...
- Agile working model, versioning tools (git & GitHub); onsite-offshore working model

#### 2. LANGUAGE & FRAMEWORK

- <u>Strong Python</u>: 3<sup>years</sup> working experience, (pure, numpy, tensorflow, matplotlib on Colab, kaggle)
- C/C++ (2<sup>years+</sup> in university): template, pointer, callback
- Front-end: HTML/CSS (flexbox, grid), Bootstrap, ...; fluency typescript <u>ReactJS</u> with <u>NextJS</u> (hook, redux, router);
- Backend: Golang (1<sup>year</sup> industry): thrift in golang, pub/sub, event bus, http protocol; Java Spring; Express NodeJS;
- Database: experienced with SQL (index, trigger), NoSQL (DynamoDB, MongoDB)
- Network: SSL, PowerDNS, port forwarding, revert proxy; nginx config
- Linux: fluency bashscript, worked on Ubuntu, Centos 8; MobaXterm
- DevOps: CI/CD, Jenkins (BlueOcean, Slave Node), Jira, Gitlab (build self-host), log tracing, troubleshooting
- Proficient Terraform, Docker (in industry); experience with Kubernetes (network, node, services)
- A bit of encryption: public/private key, SHA256, RSA
- Others: neural network attention mechanism (essence knowledge of math), figma, <u>jekyll blog</u>, GCP, DigitalOcean, ansible,



# **W**ORK **E**XPERIENCES AND PROJECT

# VNU-HCM, University of Science (student project)

Sep. 2016 ~ Sep. 2020

- BietDoiSieuLapLanh: make it even before learning how to code a website.
- Caro Terminator: Basic AI game based on Min-max algorithm on Window Phone
- Pucca Runner (play): unity game based on Dijkstra algorithm
- Banking System: develop from scratch a banking system to transfer money with RSA, PGP signature

#### **XEP Outsource Company** (Web Developer)

2018 - 2019

Commercial website: Customize Database, Develop fullstack CRUD of a commercial website
 Rakumo Inc. (Python Back-end)

• Django Web: working with Japanese customer to develop webapp integrate DocuSign system

# FPT Software (AWS Data Software Engineer)

Oct. 2020 - March. 2021

- DevOps Internal Training CI/CD pipeline for Java Maven. (CI/CD, nginx, Kubernetes, docker)
- Cox Enterprise: Working daily directly onsite-offshore with US techlead to develop data system.
- Implemented and modified various real-time and batch data pipelines on AWS using Kinesis, Lambda, S3, Glue, StepFunction, SNS, etc.
- Using Route53 and API Gateway to config Failover routing policy for availability
- Wrote terraform to provision AWS infrastructure for the data pipelines.

# **VNG Corp** (Software Engineer)

Oct. 2021 - Now

Zalo Content Delivery Network: caching service serve millions request of the top Vietnamese news & media website

- Monitoring and log tracing to prevent and categorize various DDOS attack
- Develop full-stack admin webapp with go-gin RESTful and NextJS (FluentUI 8), deploy on-premises

# **CERTIFICATIONS**

| • | Support Student Examination Certification                               | Aug 2014 – Oct 2014 |
|---|---|---------------------|
| • | Emotion Recognition Certification - HCMUS                               | Nov. 2019           |
| • | Coursera: Design Pattern, TensorFlow Developer Professional Certificate | 2020 - 2021         |
| • | AWS: AWS Certified Solutions Architect – Associate                      | June 2021           |
| • | <b>AWS:</b> AWS Certified Machine Learning – Specialty                  | June 2021           |
| • | DeepLearning.Al TensorFlow Developer                                    | Aug 2021            |
| • | Critical Thinking Certification   | Oct 2014            |
| • | FPT Training: Solution Architect Certificate                            | July 2021           |

# Honors & Awards

| • | <b>Incentive</b> Award in The Good Chemistry District Student Contest | 2009       |
|---|---|------------|
| • | Second Round Thach Thuc, Faculty of Information Technology, HCMUS     | 2013, 2014 |
| • | Summer Course Machine Learning - HCMUS                                | Oct. 2019  |