

Viet Hoang Nguyen

SOFTWARE ENGINEER · BACKEND DEVELOPER

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"I have a lot of interests but whenever i have freetime, i go to sleep" (Hoàng Nam Tiến, CEO FPT Software)

Summary

I'm Hoang Nguyen, a software engineer currently living in Hanoi. I'm familiar with designing and development of web application using Python and Python Framework to solving supply chain, data and simulation problems for an American Fortune 100 client. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises. I'm trying to improve my career path to be a solution architect.

Education

VNU University of Science

B.S. IN COMPUTER SCIENCE AND INFORMATICS SCIENCE

Hanoi, Vietnam

Sep. 2017 - Jul. 2021

Work Experience

Maxflow R&D

BACKEND DEV

Hanoi, Vietnam

Jun. 2021 - now

- Our client is an American Fortune 100 company
- Our team collaborated with the client to provide a powerful software product to mining industry. My role is to design and implement discrete event simulation system for heavy haulers moving on the site and how much energy it takes (Discrete Event Simulation - DES).
- Convert module Battery life estimates from VBA to C++. Runtime optimize : from 10m to 10s
- Develop Maxflow.app - a web-based platform for process automation. It allows users to connect simple components together to make workflows that perform flexible and complex jobs.
- In Maxflow, I'm usually using:
 - Programming Language: Python, C++
 - Tools and framework for DES : Simpy, Numpy, Scipy
 - Message queue and tools scale : RabbitMQ, Kafka, AWS EC2, AWS Lambda
 - For web server : Flask, FastAPI, Uvicorn, Nginx, Docker
 - SCM : Git

VietRad Technology

BACKEND DEV

Hanoi, Vietnam

Mar. 2019 - Jun. 2021

- Minerva PACS is an informatic technology solutions in managing medical imaging, developed on WEB-based platform, synchronously connected among functions of storing big-sized pictures and imaging tools, 2D-picture processing, MPR, 3D-picture rendering. It is running in Bach Mai Hospital and Hanoi Medical University Hospital.
My role is to build C++ library based on DCMTK to process DICOM image.

Honors & Awards

2018 **Third Prize, IT**, Viet Nam Informatics Olympic Contest for Students - OLP

Hanoi

2017 **Second Prize, non-IT**, Viet Nam Informatics Olympic Contest for Students - OLP

Ho Chi Minh city

Skills

Language Python, C++

Technology Git, Docker, Nginx, Kafka, Redit, AWS(EC2, Lambda), Oracle Cloud, Cloudflare, Github Runner

OS Unix, Windows