

Pham Duy Hoan

DevOps / AWS Engineer

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EXPERIENCE

Biorithm, Singapore — DevOps / AWS Engineer, Head of Software

MAY 2019- PRESENT

- Head of Software:

Be in charge of creating technical products about healthcare that satisfy the requirements of ISO standards through SOPs.

- + Get requirements from other departments (Business Department, Clinical Department)
- + Design Software Architect in microservice, serverless in AWS to handle concurrent 750 requests, time process each request = 2 minutes using AWS SQS, AWS Lambda with the lowest cost.
- + Admin of Source Code and Infrastructure, Review Pull Requests in all technical aspects from Mobile App, Algorithms, Frontend, Backend
- + Manager of the Software team (1 Mobile App, 1 Full Stack, 1 Algorithm Engineer and myself: Backend + DevOps)
- + Be in charge of releasing mobile apps in Google Play Store, Apple App Store, releasing frontend, backend in AWS.

-DevOps / AWS:

Doing both Developments and Operations, using automated tools to have better quality products, mainly using AWS

Developments:

- + Develop backend using AWS (AWS Lambda, DynamoDB, SQS, ...)
- + Algorithm engineer: Research develop STV algorithm for fetal CTG monitoring, mainly with Python (submitted paper)

Operations:

- + Build CI/CD for projects (Jenkins, Bitbucket Pipelines, JIRA, ...)
- + Infrastructure as Code using AWS CloudFormation, ...
- + Monitor using AWS CloudWatch Logs
- + Scan source code using SonarQube.
- + Cyber Security of the products (Which ports should be opened, Is there any memory leak, ...)

SKILLS

- DevOps (Jenkins, Atlassian, AWS Code Commit, Code Build, Code Pipeline, Code Deploy, ...)

- More than 3 years using Amazon Web Services (AWS).

-Design Software

Architecture that can work with embedded devices if needed.

-Develop backend with Python, Nodejs

-R&D algorithms with Python, MATLAB, C Linux Programming

AWARDS

2013-2018:

-8 semester scholarships with 2 excellent ones, globes from university's principles.

-Sponsor of a topic about Cognitive Radio with Network Coding at university with rank: excellent

-Thesis about Implement Algorithms in Digital Signal Processor - one of 3 theses get a mark of 10/10

-Work on accepted IEEE papers:

<https://ieeexplore.ieee.org/document/8167639>

Viettel R&D, Viet Nam — Signal Processing Engineer

MAR 2017 - MAY 2019

- Research using MATLAB Language and implement algorithms in physical layer 5G using C Language for high performance (Intrinsic functions based on CPU architecture, multi thread, multi process in Linux Programming, ...)

- Integrate Physical Layers (Layer 1) with other layers (Layer 2, Layer 3) in 5G Base Station.

<https://obgyn.onlinelibrary.wiley.com/doi/10.1002/uog.26191>

<https://obgyn.onlinelibrary.wiley.com/doi/10.1002/uog.26192>

<https://obgyn.onlinelibrary.wiley.com/doi/10.1111/aogs.14543>

EDUCATION

PTIT, Viet Nam — Bachelor

SEP 2013 - MAR 2018

- Very Good Degree with GPA: 3.39/4

- A Member of the team joined the National Math Olympiad 2018.

PROJECTS

Femom <https://www.bio-rithm.com/>

- DevOps, Head of Software, Design architecture, Develop backend, Research algorithms.

LANGUAGES

English

Vietnamese

5G Base Station gNB — Signal Processing Engineer

- Implement and integrate algorithms in the physical layer

Personal Website — Full Stack <https://www.lighthappy.org/>

- AWS Amplify Framework with multiple applications: Blockchain ETH Solidity projects, real-time chat, merge pdf files, generate subtitles, ... in microservices, serverless.

- Frontend: React JS

- Backend: Python, AWS Lambda, AWS DynamoDB, GraphQL, ...

- DevOps: Bitbucket Pipeline, AWS Cloud Formation, AWS Code Commit, Code Build, Code Pipeline, Code Deploy, ...

- Management: JIRA, Bitbucket, ...

Github — <https://github.com/hoan-pham-duy>

Try to summarize knowledge in common architectures, DevOps, Blockchain, ...