Vu Hoang Viet

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# SUMMARY

* I'm a great leader who prioritizes both the career path and emotional well-being of team members, providing suitable support to ensure their success.
* I possess strong expertise in Domain-Driven Design and Microservices Architecture, alongside a deep understanding of various architectural patterns.
* With extensive experience in Cloud Architecture and Kubernetes, I have successfully led multiple project developments.
* My proficiency in DevOps processes ensures efficient and effective project execution.
* I am adept at working on diverse projects and excel in communicating with both internal and external stakeholders to deliver tailored solutions.
* I utilize C4 models and UML in design documentation to offer a clear and comprehensive view for both customers and development teams.

# EMPLOYMENT HISTORY

### NashTech GLOBAL

06/2021 – present

**Job Title:** Technical Architect

**Job Description:** Work together with stakeholders (clients, product owner, business analysts, and third-party partners) to develop requirements and offer appropriate solutions. Provide documentation on technical solutions to internal teams and stakeholders so they may be updated. Creating tickets on the Project Backlog in close collaboration with the BA to make sure the team can start and continue working on the sprint. Setting priorities for each ticket and defining the scope of work for each sprint in collaboration with the product owner and development team. Define the team's development process, taking into account the DevOps process, coding standards, git flow, tools, and development guidelines. Manage the setup of the system, keep an eye on its health, keep an eye out for production problems, and, in the event of an incident, offer analytical reports and appropriate response plans (both short- and long-term).

### Panasonic R&D Center Vietnam

03/2018 – 6/2021

**Job Title:** Assistant Principal Engineer 2

**Job Description:** Acting as a team leader/technical architecture, responsible for defining project architecture, project structure, project engineering process rules, breaking down project characteristics to define tasks and developing project members' design documentation, coaching and training.

### VietSoftware International Inc.

06/2014 - 02/2018

**Job Title:** Senior Software Engineer

**Job Description:** Build internal ERP tool for the company to produce components supporting a variety of business functions. Join to build VSII Standard of Things program for standardizing company Software Factory including Engineering Process and Supporting tools (OpenStack, Redmine, Git, JenkinCI, Wiki). Working as development leader on some NodeJS projects.

### ETC Technology System JSC

06/2011 - 06/2014

**Job Title:** Senior Software Engineer

**Job Description:** Establish and Responsible for Payment Security Gateway and Verifone POSes.

Take part in building company engineering process, coaching team members and teamwork planning.

### FPT Software

06/2010 - 05/2011

**Job Title:** Senior Software Engineer

**Job Description:** Responsible for the design, development and implementation of software applications by participating in the definition, architecture, coding, and other technical aspects of software projects.

Be onsite in UK to work on PMS Project as a consultant

Cooperate with UK team and Vietnamese developers to ensure the project quality and completeness.

### VietSoftware International Inc.

01/2006 - 05/2010

**Job Title:** Software Engineer

**Job Description:** Responsible for the design, development, and implementation of software applications by participating in the definition, architecture, coding, and other technical aspects of software projects.

Assist the Project Managers in coordinating all project team initiatives and serving as a focal point for the Project Managers by ensuring the completeness of all project documentation.

# SKILLS & TECHNOLOGIES

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| --- | --- | --- | --- | --- |
| Languages | Operating Systems | Cloud Computing | Networking | Database |
| - C/C++  - JavaScript/NodeJS  - Java  - UML | - Linux  - Windows | - AWS  - Docker | - TCP/IP  - HTTP and RESTful API | - PostgreSQL  - MySQL  - DynamoDB |

# EDUCATION

### Bachelor of Information Technology

From 09/2001 To 06/2005

University/School: Faculty of Information Technology - Hanoi Open University, Hanoi, Vietnam

# AWARDS AND CERTIFICATES

## Awards

### IBM Team Award

|  |  |
| --- | --- |
| 7/2007 | From: IBM Singapore |

### 2008 VSII Top Gun for outstanding members

|  |  |
| --- | --- |
| 12/2008 | From: VietSoftware International |

### 2019 Best Project Award

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| --- | --- |
| 12/2019 | Smart Laundry Server Application Migration |

## Certificates

### JAVA

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| --- | --- |
| 12/2008 | Sun Certified Programmer for the Java Platform, Standard Edition 5.0 |

### AWS

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| --- | --- |
| 01/2025 | [AWS Certified Solutions Architect – Professional](https://cp.certmetrics.com/amazon/en/public/verify/credential/1df3b5350e8242ea878ea634a2368998) |
| 12/2019 | AWS Certified Solutions Architect – Associate |

# PROFESSIONAL EXPERIENCE

## Java projects

### SHOPS Management

**08/2023 – 05/2024**

Team size: 16 members  
The Client is a British e-commerce company which operates over 100 international websites. They are one of the world’s largest e-commerce retail companies in beauty and nutrition​.

The client wants to add Tiktok, Amazon, Shopify, and Ebay to their list of selling channels.

Following features are implemented:

* Integrate to send and receive data about items, stocks, returns, and orders with backend systems (Inventory Manager, Stock Manager, Order Manager, and Return Manager)
* Data streaming to stores for in-the-moment updates on products, inventory, returns, and order details
* Offer a collection of adapters compatible with eBay, Amazon, Shopify, and Tiktok.

#### Responsibilities

* Technical Architect
* Development team management
* Build up requirements and solutions
* Architecture Design / Detail Design
* Build up DevOps process
* Review and Technical verification
* Production monitoring

#### Achievements

* As a Solution Architect, work closely with the customer to comprehend product milestones. Then, communicate with client departments and other partners to offer and represent solutions.
* Design the project with Microservices Architecture
* Using C4 Models for design
* Deliver products to four environments: Dev, QA, UAT and Production through GitOps flow with Github package, Github Actions, Kubernetes

#### Technologies

* Java 11, Spring-Framework, Spring Integration
* Kubernetes, Helm, Github Action
* CockroachDB, KONG, Keycloak, Artemis Active MQ,
* Open telemetry, Jeager, Opensearch
* SonaQube, Synk

### Customer Portal

**04/2022 – 06/2023**

Team size: 17 members

The Client is a British e-commerce company which operates over 100 international websites. They are one of the world’s largest e-commerce retail companies in beauty and nutrition​.

The Customer Portal project provides the communication channel allow the Marketers and Supporters easily works with their customers by reducing manually paper works by following features

* Form Management with dynamic Web form generator engine
* Onboarding process management
* Internal CRM System integration

#### Responsibilities

* Technical Architect
* Development team management
* Build up requirements and solutions
* Architecture Design / Detail Design
* Build up DevOps process
* Review and Technical verification
* Production monitoring

#### Achievements

* Oversee the 17-person team across three departments in Hanoi, Danang, and Ho Chi Minh City. Foster strong interpersonal relationships to foster excellent teamwork.
* Design the project with Microservices Architecture
* Using C4 Models for design
* Deliver products to four environments: Dev, QA, UAT and Production through GitOps flow with Github package, Github Actions, Kubernetes

#### Technologies

* Java 11, Spring-Framework, Spring Integration
* Kubernetes, Helm, Github Action
* CockroachDB, KONG, Keycloak, Artemis Active MQ, flyway
* Open telemetry, Jeager, Opensearch
* SonaQube, Synk

### Smart Laundry SERVER Application Migration

**04/2019 – present**

Team size: 10 members

Home Appliances Server Development.

Smart Laundry Server Application is the system allow to control and monitor House-hold washing machine by Mobile Application. This system is running on Azure and need to be migrated to AWS with following requirement:

* Migrate the running system from Azure to AWS.
* Migrate code from .Net Framework to Java Spring Framework
* Migrate MSSQL Database to NoSQL Database

#### Responsibilities

* Technical Leader
* Architecture Design / Detail Design
* Coding/Implementation

#### Achievements

* Working with AWS Cloud to develop and deploy project
* Apply JUnit test to manage code quality
* Apply SonarQube for static Analysis
* First-time using NoSQL DynamoDB

#### Technologies

* Java, Spring-Framework
* Docker, AWS ECS, AWS ECR, AWS DynamoDB, AWS SQS, AWS Lambda, AWS Kinesis
* Junit Test
* SonarQube

## C/C++ Projects

### Payment Development

**04/2018 – 04/2019**

New Panasonic Payment Device development.

#### Responsibilities

* Technical Leader
* Architecture Design / Detail Design
* Coding/Implementation

#### Achievements

* Apply Event-Driven Architecture and Thread-Pool Concept to the project.
* Apply Google Testing Framework to project, project members are required to write the test cases at right the time they write the code, by this way, we could apply semi-automation testing to the project, so testing effort is reduced.
* Apply Branching Strategy on Development Process.
* Learn how to use Yocto in OpenEmbedded Build System (BitBake and OpenEmbedded Core) to build the Device Platform.

#### Technologies

* C/C++, Multi-Processing, Multi-Threading, Message Queue, Epoll, Socket, Smart Pointers
* Yocto
* Google Test/Google Mock

### SDN Project

**10/2016 – 04/2017**

SDN is a devices controller system which allows system engineer to remotely monitor, control and configure a lot of devices.

#### Responsibilities

* Architecture Design
* Implementation

#### Achievements

* First time using Unit Testing Concept with C (CUnit).
* Apply Event-Driven Architecture and Thread-Pool Concept to project

#### Technologies

* C/C++, Multi-Processing, Multi-Threading, Message Queue, Epoll, Socket, CUnit

### VeriFone Softpay

**9/2011 – 06/2014**

VeriFone Softpay is the application for VeriFone POS-es as VX510, VX510G, VX520-eVo, VX610, VX680-eVo etc... The application provides methods to execute Banking Transactions through POS-es as SALE, VOID, and SETTLEMENT…

This project provides VeriFone Softpay application for ETC’s customers (Vietnamese Banks).

#### Responsibilities

* Business analysis
* Implementation

#### Achievements

* Have the chance to work directly with the customer in Bank environment, improve Business Analysis skill.
* Join to full-process of Software Product Development.

#### Technologies

* C, Verfifone Softpay Framework, VX SDK, VX Evo SDK

### PMS – Portfolio Management System

**6/2010 – 05/2011**

PMS (Portfolio Management System) is a finance software system for investment management and accounting management

#### Responsibilities

* Implementation

#### Achievements

* Have the chance to work in a large finance system, which has complex design with multiple programs in the system, output of a program is the input of another one. Collect many experience in OOP design and system design.
* Have the chance to work in professional project management process and engineering process.
* Learn about Branching Strategy on Code Management.
* Have the chance to work in London with great development team.

#### Technologies

* C/C++, Z shell, Oracle, Sun Solaris

### IBM-TDS Binary Compiler

**10/2007 – 05/2010**

Port an existing library written in MFC for Windows to C, C++ for Unix/Linux. Integrate the library with an existing application on Unix. Enhance current features and functionality. The application and library is used to generate binary format data from ASCII format data. The structured binary file is the input file of the hardware testing system that tests the chips.

#### Responsibilities

* Implementation

#### Achievements

* First time to have the chance working in a C++ project, start to learn OOP Concept.
* Become the key developer of the project.

#### Technologies

* C/C++, Korn/Bash Shell
* Lex & Yacc, COM
* AIX, Linux

## JavaScripts/NodeJS Projects

### Flockface

**10/2017 – 12/2017**

FLOCKFACE gives suggestions when to get connected, where to discover new places, and what to entertain with your friends. Make the best of utilizing location intelligence to build customer experiences, this mobile app is developed by our creative engineers at VietSoftware International Inc. FLOCKFACE is another way you can interact with the world. A lightweight yet powerful mobile app for organizing events, sponsoring travelers, shopping around, or even caring for others. It's never been easier to have an intimate gathering amongst friends. At VietSoftware International, we believe that sharing with friends and family about the amazing places you discover is an exciting part of life. We created FlockFace to capture those very moments!

<http://flockface.com/>

<https://products.vsi-international.com/>

#### Responsibilities

* Architecture Design
* Development Leader
* Implementation

#### Achievements

* Release first version of FlockFace application on Google Play and Apple AppStore.
* Have great experience working on ReactJS, ReactNative and Mobile Development.
* Have strong knowledge about MVP, MVVM design pattern and Saga Pattern.

#### Technologies

* NodeJS, Loopback, Socket.io, React Native, Redux, Redux Saga
* Deploy on AWS: EC2, RDS

### Unison

**5/2017 – 10/2017**

Unison is the Music App for Band Directors. Directors have asked and we are listening - coming in the Fall of 2017 is UNISON, a complete file management and sharing system for band directors. With UNISON, directors will be able to create a digital library of files they can share with individual members in their bands or entire sections. Members of the ensemble will have access to the shared files via the UNISON mobile app. Within the app, members can offline files for use when no network is available and can markup files - just like they would with paper - with the annotation tool.

<https://www.tonalinnovation.com/unison>

#### Responsibilities

* Development Leader
* Architecture Design
* System Engineer
* Implementation

#### Achievements

* Release the production on-time to the customer
* Apply CI to the project
* Have the chance to lead a small team (5 members) to work under Project Manager

#### Technologies

* NodeJS, LoopBack, Angular JS, React Native, JavaScript, HTML, CSS
* Deploy on AWS: EC2, RDS, EBS

### JRSS Tool

**5/2017 – 10/2017**

JRSS management tool of VSII company with following features:

* Manage VSII company’s resources and their skills
* Manage members’ development plan
* Manage candidates’ information who have interviewed at VSII

#### Responsibilities

* Development Lead
* Business analysis
* Database design / Architecture Design
* Coding
* System Engineer

#### Achievements

* First time working with NodeJS, learn about Async concept
* Apply CI to the project
* Design Project Training Course on 5 days for new members

#### Technologies

* Node.js (version 4.6), Postgre (version 9.6)
* Expressjs (version 4.x), Loopback (version 2.x), Passport, Redis, AngularJS/Bootstrap
* HTML5/CSS/JavaScript

## Other Projects

### VSII ERP System

**5/2017 – 10/2017**

VSII needs a new system to manage TimeSheets, Human Resource and processes on the company.

In the short term, the system is built to manage timesheets and projects, generate reports to submit to the BOD. It also enables to integrate to some project managements tools such as JIRA and Redmine, the target is to have the exact values from works of employees every day and reduce the time require employees to fill down the Weekly Timesheets.

In the long term, it should be opened to be an ERP system that contains many tools working together to manage and plan the Resources of the company.

#### Responsibilities

* Investigating OpenERP,
* Develop new modules,
* Deploy the project to UAT and Production.

#### Achievements

* Have the chance to work with many teams in the company to collect requirements.
* Learn to build ERP system.
* First time working with Python

#### Technologies

* Python, PostgreSQL, OpenERP, Ubuntu Server 14

### IBM Innovation Projects

**6/2006 – 8/2008**

Project initiated by ibm.com chief innovation officer. It develops a proof of concept of new tools and technologies within IBM. It is constituted form very many small projects as: IBM Shortcuts, Yahoo IBM Widget, IWANTCONTROL forum, IBM RSS Feed Management…

#### Responsibilities

* Implementation.

#### Achievements

* First time working in a Software Project
* Have experience working with OpenSource and project maintenance
* First time to learn about Software Design

#### Technologies

* PHP, My SQL, Ajax, XML, Zend Framework, RSS2, XML, Flash, Yahoo Widget SDK