



Mai Trung Duc

Web developer (NodeJS, Laravel, VueJS, React/React Native)

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Gender: Male

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OBJECTIVES

Being a great expert in software engineering. Giving much value to people

EDUCATION

Sep 2013 - June 2018

Hanoi University of Science and Technology

Major: Software Engineering

GPA: 3.10/4

WORKING EXPERIENCE

Feb 2019 - Present

Nanyang Technological University

Software Engineer

Main responsibilities:

- Develop products related to Auto Speech Recognition (ASR): web/mobile/desktop apps
 - Writing APIs for interacting with ASR system
 - Deploy applications using cloud services: AWS EC2/S3, Azure AKS
 - Monitor and improve system performance
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April 2018 - Feb 2019

Nanyang Technological University

Software engineering internship

Main responsibilities:

- Build a live streaming audio app
 - Developing the keyword search app: searching from a long audio using some smaller audios
 - Build an transcribe app: take input is human voice input and generate subtitles for conversation, allow users to edit the subtitles
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Jun 2017 - Mar 2018

Rabiloo Company

PHP Developer

Project title: develop Facebook Chatbot for sale and managing facebook fanpage

Activities:

- Creating server's modules using Laravel
 - Designing and programming front-end using VueJS
 - Integrating Facebook Graph API into back-end
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Jan 2017 - May 2017

FPT Software

.NET Developer

Project: IoT solutions for smart house

Activities:

- Developing modules for smart house which include: control light system and doors.
- Fixing bugs and optimizing code

Jul 2016 - Jan 2017

Hosco Software Company

.NET Developer

Project title: Building a Gym Postal for gym center to manage users of the center (check in, check out, payment,...)

Activities:

- Co-operating with teammates to create system architecture, database, modules
- Programming
- Fixing bugs and optimizing code

Jan 2016 - Jun 2016

FPT Software

iOS Developer Internship.

Activities:

- Designing and programming iOS app on business statistics

Sep 2014 - Sep 2016

Lenguyet English Center

Teaching Assistant

- Supporting teacher in education in the center
- Supporting students in their learning process
- Creating out/in door activities for students to practice their English
- Managing a team (5-7 people) support teaching staff
- Organizing volunteer activities for staffs and students in the center

ACTIVITIES

Sep 2017 - Oct 2017

Leadership Exchange Program

Temasek Polytechnic (Singapore)

- Joining in volunteer program
- Culture exchange program
- Teamwork activities

July 2018 - July 2018

TheBlockchainSPIRIT Hackathon

Nanyang Technological University

- Developing a solution using blockchain based on some of common blockchain platform like: Ethereum, Hyperledger or NEM
- Working closely with team members in order to creating product in short time

CERTIFICATIONS

2017

TOEIC Certificate with score 895/990 issued by IIG Vietnam

2015

Certificate of finishing talented training software program in FPT Software

HONORS & AWARDS

2013-2014	School scholarship for good students in 2 semesters
2016	Lotte Scholarship for outstanding students

SKILLS

Programming	VueJS, NodeJS, React/React Native, PHP, Laravel, MySQL, HTML, Javascript, Typescript, AWS, Linux, Azure, Docker, Kubernetes/Helm
Computer	Photoshop, Adobe Premiere
Language	English, Vietnamese

INTERESTS

Watching football, gym, travelling, photography

PROJECTS

API gateway for multiple speech recognition services

(2019 - 2020)

Customer	DHL, MSF, Surfing Tech, Appen,...
Description	<ul style="list-style-type: none">- An API-based project that handle HTTP traffic from public to internal speech recognition services (each service is a different instance that handle different tasks)- Allow user can send audio data in single or multiple files to get transcribed and returning back transcription- Allow user can perform realtime speech recognition- Act as an auth guard and also a load balancer stands before of other services behind
Team size	4
My position	Developer
My responsibilities	<ul style="list-style-type: none">- Analysis and design- Development- Code review- Optimizing code- Bug Fixing- Automation test and deployment using CICD
Technologies used	<ul style="list-style-type: none">- NodeJS (Typescript), VueJS, Websocket- Database/cache: MongoDB, Redis- Deployment: Docker, Kubernetes (AKS), Helm- Monitoring: cAdvisor, Prometheus, Grafana- CICD: Gitlab CI

Auto speech recognition app (mobile and web)

(2019 - 2020)

Customer	Public
Description	<ul style="list-style-type: none">- This app allows multiple users can join in a room and talk, then the conversation audio data will be sent to server to decode and generate transcription- Available for both Android and iOS

	<ul style="list-style-type: none"> - Support both live transcribe or async transcribe (results returned after a while) - Can process when audio data is overlapped - Can detect each individual user
Team size	2
My position	Developer
My responsibilities	<ul style="list-style-type: none"> - Analysis and design - Development - Code review - Optimizing code - Bug Fixing - Automation test and deployment using CICD
Technologies used	<ul style="list-style-type: none"> - React Native (Typescript), VueJS - NodeJS, SocketIO, MongoDB, Redis - LEMP stack - Docker - CICD: Gitlab CI

Public chat forum

(2018 - 2018)

Customer	Public
Description	<ul style="list-style-type: none"> - This app allow user to chat in public in incognito or using member account - User can choose many type of chat room depending on their demand - User can streaming chat using mic or camera in real time - This app contains subdomains in order to separate target objects - User can chat in room with other users or can choose private chat
Team size	2
My position	Developer
My responsibilities	<ul style="list-style-type: none"> - Analysis and design - Development - Code review - Optimizing code - Bug Fixing
Technologies used	<ul style="list-style-type: none"> - NodeJS, VueJS, SocketIO, MongoDB, Redis - LEMP stack - Webpack - Cloudflare - Docker - CICD: Gitlab CI

Query-by-Example Spoken Term Detection

(2018 - 2018)

Customer	Researchers
Description	<ul style="list-style-type: none"> - Search a small/short audio in a long audio by using Dynamic Time Warping Algorithm - Extract audio to get features and apply those feature to the algorithm to find when the small audio appears in the big audio file - Deploy it on browsers
Team size	2
My position	Developer
My responsibilities	<ul style="list-style-type: none"> - Database design, UI design - Programming
Technologies used	<ul style="list-style-type: none"> - C++, Kaldi - NodeJS, MySQL, VueJS, SocketIO

Speech Recognition Mobile App

(2018 - 2018)

Customer	Enterprise Customer
Description	- Allow user can stream audio data from mobile's mic then send to server to recognition in real time
Team size	2
My position	Developer
My responsibilities	- UI design - Programming - Optimizing code - Receive feedback from user and adjust the app
Technologies used	- Android, WebSocket - Audio streaming, Speech-to-Text system - PHP, Laravel, MySQL (for API interface and authentication)

Subtitle Transcribing Application

(2018 - 2018)

Customer	Researchers
Description	- Receive input from human voice in real time then send it to Google and receive result as subtitle - Allow multiple channels processing - Display result in real time - Allow user to edit the subtitle and save.
Team size	1
My position	Developer
My responsibilities	- Hardware problem solving: how to receive and detach data from multiple channels - UI design - Programming - Optimizing code
Technologies used	- VueJS, SocketIO - Python - Google Cloud Speech

Chatbot for businesses on Facebook

(2017 - 2018)

Customer	Small and medium businesses
Description	- This app for businesses which want to marketing their products to customers through Facebook - Manage products and customers - Create marketing campaigns to promote their products
Team size	6
My position	Developer
My responsibilities	- Analysis and design - Development - Code review - Optimizing code - Bug Fixing
Technologies used	- PHP, Laravel, VueJS, MySQL - Facebook Graph API - Webpack

Blockchain on Distributed File System

(2017 - 2018)

Customer	(Final project on school)
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Description	- This system allows user can share files to others, file will be distributed globally using IPFS, file's info will be saved into an Ethereum blockchain
Team size	1
My position	Developer
My responsibilities	- System analysis - Programming
Technologies used	- NodeJS, VueJS, Laravel - Go Ethereum, Web3JS, IPFS

IoT on Smarthouse

(2017 - 2017)

Customer	Personal customer
Description	- Develop modules on doors management
Team size	1
My position	Developer
My responsibilities	- Database design - Programming - Optimizing code
Technologies used	- MVC.NET, WCF - SQL Server

BAHANTO E-commerce platform

(2016 - 2017)

Customer	Sale businesses
Description	- Allow users to create their shop and sell on it - Manage users and products - Statistics data
Team size	5
My position	Developer
My responsibilities	- Developing from current system - Optimizing code - Receiving feedback from user and adjust the app
Technologies used	- MVC .NET, WCF - SQL Server,

GymMaster Portal

(2016 - 2017)

Customer	Gym centers
Description	- Manage members in a gym center - Interact with hardware when user check in or out - Statistics
Team size	3
My position	Developer
My responsibilities	- Database design - Programming - Optimizing code - Receive feedback from user and adjust the app
Technologies used	- MVC .NET, WCF - SQL Server

Skipping Stones (Multiplayer Game)

(2016 - 2016)

Customer	(Project on school)
Description	<ul style="list-style-type: none">- A game in it users can join and play with each others- Each user has their own section equivalent with their screen size. And all section of all users will be connected- Users can throw a stone from their section to other's section in real time
Team size	4
My position	Developer
My responsibilities	<ul style="list-style-type: none">- System analysis- Programming
Technologies used	<ul style="list-style-type: none">- Unity, C#, RPC-PHP, MySQL