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Montreal, Canada

CHINH TRAN

SOFTWARE DEVELOPER

Practice in a professional environment to improve personal skills. Proficient and knowledgeable in the field of IT.

EDUCATION

DANANG UNIVERSITY OF SCIENCE
AND TECHNOLOGIES
2021 - 2022

DANANG UNIVERSITY OF SCIENCE
AND TECHNOLOGIES
2015 - 2020

MASTER OF COMPUTER SCIENCE

Research students at University of Montreal and Danang University of Science and Technology. Studying in **computer vision** and **image processing**. Have worked on 3D Meshes, points cloud technologies with some machine learning algorithms.

SOFTWARE ENGINEERING

The program of engineer which is controlled by **Commission des Titres d'Ingénieur** (CTI) for Excellent Engineer. Taking many courses about mathematics, data structure, algorithms, designing and software developments. Finished many learning project included Native, Web and Mobile Applications

Addendum :
- Commission des Titres d'Ingénieur (CTI)

RESEARCH PAPERS

IEEE BHI-BSN Conference 2021

IEEE BIBE Conference 2022

IEEE EHB Conference 2022

Gait analysis with curvature maps: A simulation study

Video surveillance for near-fall detection at home

Comparison of anomaly detection algorithms for near-fall detection with video surveillance

SKILLS

UI & UX

Figma
Adobe

FRONT-END

HTML/CSS
React, Vue
JavaScript
SASS, Styled
Next JS
Bootstrap

BACK-END

MongoDB
MySQL
Express.JS
Node.JS
Python

WORK EXPERIENCES

01. WEB APPLICATION DEVELOPER - KOIOS INTELLIGENCE

- **From 05/2022 to now**

Design, implement, deploy and maintain web-based applications of intelligent virtual assistant systems in the field of providing insurance for home, car, health, etc.

- **Front-end:**

Lead developer for the entire Front-end project. The application works as a micro-service and embedded several insurance company home pages. Main work includes UX/UI design, building new components, maintaining and refactoring old components using Classes to React Hooks and HoC. The technologies used:

+ Base framework: ReactJS, BlazeJS, React Native
+ Request handler: Axios, React-Query
+ State management: Recoil
+ Testing: Selenium and NightwatchJS
+ Others: Docker, GCP, Bitbucket, Bootstrap, Material UI, React-hook-form, next-i18next, date-fns, moment-js, yup, etc

WORK EXPERIENCES

01.   WEB APPLICATION DEVELOPER – KOïOS INTELLIGENCE   (continue)

- **Back-end:**

Although mainly working on the client side, sometimes I also handles many tasks on the server side.

Creating micro services and tiny servers with Cloud Function of GCP. The application is based on NodeJS and ExpressJS which query data from Google Buckets as Database and expose it to the HTTP APIs.

Implementing and testing a chatbot server is one of the requirements of the job. The chatbot is developed base on the Rasa with customized core and actions. The service is modified to adapt multiple clients and use cases of insurance industry.

Technologies used:

    + Base framework: Nodejs, ExpressJS, Python Sanic, Rasa

    + Database: MongoDB, Redis, Firebase

- **Mobile:**

Customization the open-source Rocket Chat and Development some new features for it.

Preparing and white labelling for deploy the mobile application to Google Play Store and AppleStore

    + Base Source: Rocket Chat React Native

- **Other Tasks:**

1. Testing: Automation e2e testing, writing testcases, etc.
2. Documentation: Preparing documents for the developing and software qualification, etc.
3. Design: UX/UI Design, promotion video creation, etc.
4. DevOps: Bitbucket Pipelines, Kubernities, Google Cloud Platform, etc.

02.   COMPUTER SCIENCE RESEARCHER – UNIVERSITY OF MONTREAL

- **In 2020 and 2022:**

I have worked on the field of Computer Vision and Image Processing. The topic of research project is the healthcare of elderly people and analysis the characteristic of people pose. Both supervised and unsupervised machine learning algorithms are used in this project to determine the pros and cons of the approaches.

I have taken part in some conferences as an author and speaker around the world (in Canada, Europe, Taiwan and Vietnam).

    + Programming Languages: Python, Cython, Matlab

    + Algorithms: SVM, GMM, Isolation Forest, Ball-pivoting, Poisson, etc.

    + Environments: Conda, Docker

    + Technologies: Blender, MakeHuman, Points Cloud, 3D Meshes, PyTorch, Conda, etc.

03.   SOFTWARE ENGINEER – EST ROUGE INC.

- **From 11/2020 to 03/2022:**
- **Internal Company Chatbot**

Join to the core team of company to develop a chatbot for internal company. This application can fetch the data from Backlog and integrated into Slack. It can help HR to handle the information of employees and manage the forms as well as the documents of the company.

Technologies: NodeJS, VueJS, Rasa, Redis and MongoDB.

- **Livestream Chat App**

Develop a livestream application for the Japanese Market. Audiences and fans can donate to artist by using stickers or letters which integrated and customized for each event or concert, the payment workflow is handled in this project also.

Technologies: NodeJS, ReactJS., MongoDB.

- **Typing Competition Game**

Develop a web game for typing competition

Technologies: NodeJS, NextJS, JQuery, MongoDB.

- **HR Ecosystem - Company Central**

An HR Ecosystem for company, job searcher, HR employees and developers. The ecosystem is a group of multiple micro applications. Support all steps from the beginning to the last of a recruitment process. The company can manage the workload of all members by the Company Central service in this ecosystem. The application can integrate with Google, Backlog and Bitbucket as well.

Technologies: NextJS, OAuth, etc.