



ANH HONG PHUONG DAO

Worcester Polytechnic Institute (graduated)

Computer Science, B.S 2019

Business Management, M.S (pre-MBA) 2019

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Software Engineer – Full Time

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SKILLS

Programming:

- **Object-Oriented Programming** and **Java** (Advanced)
- **Mobile Development** with **Java**, **Android Studio** and **Google Mobile Vision** (Intermediate)
- Database with **MySQL** (Intermediate)
- **Web Development** with **ReactJS**, **JavaScript**, **HTML**, **CSS**, **JQuery**, **NodeJS**, **Bootstrap** (Intermediate)
- **Machine Learning** (Face and Pattern Recognition) with **Python**: **K-means**, **Support Vector Machine**, **Random Forest** and **Naive Bayes**. Use of **Optical Character Recognition** (Beginner)
- **Robotics Autonomy** including Vision Processing with **OpenCV**, driving with Sensors like **IMU** and encoders (Beginner)

WORK EXPERIENCE

FPT Information System, Vietnam

05/2017-08/2017

Software Developer Intern

Worked on-site at the national bank Saigon Commercial Bank to develop their digital banking web application. Used **Oracle ADF framework** and **Java** to test existing functions, design pages and write **SQL** queries.

3forCom, Vietnam

07/2016-08/2016

Web Developer Intern

Online internship. Partially developed a web app called “Voyage” - similar to Whatsapp. Application was built using **Meteor** – **ReactJS** framework. Also got familiar with **Jira** and **Bitbucket**.

PROJECTS

Autonomous Robot for NASA Robotics Mining Competition, Senior Project at WPI

10/2018-05/2019

Single-handedly programmed a 150lb-robot. Used **Python** with **MagicBot** framework from **RobotPy**. Integrated with **computer vision** (**OpenCV** and **AruCo** visual marker), **feedback sensors** like **IMU**, encoders, bump switches and motor controllers **Talon SRX**.

Siri as Personalized Food Recommender, Artificial Intelligence

09/2018-11/2018

Single project. Compared and analyzed 3 **machine learning** algorithms: **Support Vector Machine**, **Random Forest** and **Naive Bayes**. Used dataset from **Kaggle**. Data was trained with **k-fold** division method and evaluated with **F1 Score** and **Learning Curve**. Program acted as **Siri** and based on restaurants’ characteristics and ratings, it was able to tell whether user will like the restaurants or not.

The Better IMDB, Database Management System at WPI

01/2018-04/2018

Data-driven movie search computer application. Designed a cleaner user-interface for **IMBD** using **Java/JavaFX** as programming language and GUI, and **Python** and **mysql** for data processing from **Kaggle**.

Gettysburg Game, Object-Oriented Analysis and Design at WPI

09/2017-10/2017

Implemented **Gettysburg game** (published by **Avalon Hill** in 1960s) using **test-driven development**, **Dijkstra’s pathfinder algorithm**, find closest combination to target number algorithm, **Factory** and **Strategy Design Pattern**.

Hospital Kiosk Application, Software Engineering at WPI

03/2017-04/2017

Team of 10 worked under **Agile Methodology** on a **pathfinding** application using. Pathfinding implemented with 3 algorithms: **A***, **Breadth-first**, **Depth-first**. Applied some design patterns such as **Proxy**, **Facade**, **Memento**.