



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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Recent college graduate looking for a full-time job as Software Engineer. Love Java, love to create and interested in AI/ML, Mobile development and Front-end Web Development.

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)

Business: Ecommerce, Business Analytics with Tableau, Proposal Development, Market Analysis, Social Media Marketing

WORK EXPERIENCE

FPT Information System, Vietnam

05/2017-08/2017

Software Developer Intern

- Worked in team of 8 at the national bank Saigon Commercial Bank to develop their digital banking web application. Used **Oracle Application Development Framework** (MVC) and **Java**,
- Designed over 10 UI pages,
- Handled 10,000 real data points daily and wrote new **SQL** queries if needed,
- Tested current functions, added new functionalities and fixed bugs based on customer's requirements

PROJECTS

Android Nutrient Teller, Personal Project

06/2018-07/2019

Android application that can scan text on label, use **Google Mobile Vision (OCR)** to recognize the ingredients, and show what the ingredients are with **Wikipedia API**.

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, 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.

Gettysburg Game, Object-Oriented Analysis and Design at WPI

09/2017-10/2017

Single project. 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** for a real-time hospital kiosk app (**Java/JavaFX/MySQL**). Applied **A***, **Breadth-first**, **Depth-first** algorithms, some design patterns like **Proxy**, **Facade**, **Memento**. Personally, I came up and designed the UI for the app.

More details and more projects can be found on [jessicaanhdao.github.io](https://github.com/jessicaanhdao)