

WESLEY HOANG

- Software Developer
- Automation Engineer
- Tools Engineer
- Software Analyst

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Education

University of California, Irvine - Computer Science

SEPTEMBER 2014 - JUNE 2018

- Dean's Honor List: Fall 2014, Winter 2015, Winter 2016, Fall 2016
- Relevant courseworks (including but not limited to):
 - Project in Database and Web Application
 - Design and Analysis of Algorithms
 - Principles in System Design
 - Discrete Math for Computer Science
 - Project in Artificial Intelligence
 - Embedded Softwares
 - Information Retrieval
 - Data Structure Implementation and Analysis

Skills

- Backend: Python, Java, C/C++, Assembly, JCL
- Frontend: HTML, CSS, JavaScript
- Other Frameworks/Libraries: Robot Framework, Katalon, Selenium, React
- Database Management: MySQL, IBM DB2, MongoDB
- Version Control: Github, Bitbucket
- DevOps: Confluence, Jira, Jenkins
- Hosting Services: Amazon Web Services (AWS), Apache Tomcat, Openshift
- Others: Tableau
- Operating Systems: Mac OS, Windows 8, Windows 10, Linux, Unix and Variants

Work Experience

Apple, Santa Clara - Tools & Automation Engineer II

FEBRUARY 2021 - PRESENT

- Became an automation expert within the team by building evaluations and metrics to quantify algorithm performance, and relate them to user experience for FaceID
- Maintained and enhanced hundreds of existing Python scripts by using different Apple internal libraries to compile thousands of test cases per cycle
- Utilized multiple open source Python libraries, including but not limited to: numpy, cv2, json, os, turicreate, etc.
- Developed new automated softwares, such as data scanner and visualization tool, to help improve manual efforts
- Collaborated with algorithm and firmware teams to identify area of improvement for FaceID across platforms
- Performed manual testing and drafted clear detailed reports to understand the performance of the on-device behavior
- Used Tableau to evaluate, investigate and make decisions based on the observed behaviors

Experian, Costa Mesa - Software QA Analyst II

NOVEMBER 2018 - FEBRUARY 2021

- Used Python to develop multiple custom libraries that are compatible with REST API, database connection, file transfer protocols, etc. to assist the automation process across different projects
- Guided the QA Automation efforts and automated over 1000+ test cases over multiple applications using different automation tools such as Robot Framework, Katalon Studio, etc and integrated the automation on Jenkins
- Automated tools for both QA and developer teams to reduce time and resources spent on many different projects
- Ran manual testing across both mainframe and distributed systems and utilized different tools such as Attachmate EXTRA, Oracle Database, Postman, etc.
- Utilized jMeter and Splunk to run performance tests for various applications
- Practiced the Agile Methodology to ensure all deadlines have been met and used Jira to keep track of the workload
- Ensured new products or enhancements have met with the clients' needs by working closely with the users and developers to understand and adjust the requirements if needed
- Participated in multiple internal Hackathons by introducing and executing new ideas, resulted by placing in most
- Involved in multiple clubs and employee resource groups by becoming an ambassador for the Asian American ERG and started/coordinated the Experian Dance Club to promote the culture on campus

- Developed QA Automation scripts using Python and its Robot Framework
- Collaborated with engineering team, product owner and team members using Agile to develop high quality software to help assist the process of Quality Assurance through Automation
- Developed a centralized web application called QA Hub using full-stack Java (JDBC, JSP, JSTL, Java Servlet)
- Managed thousands of datas and developed SQL to query through IBM DB2 Mainframe
- Practiced continuous integration by using and developing pipeline for Jenkins
- Utilized multiple Integrated Development Environments such as Eclipse, Pycharm, Visual Studio Code and more
- Studied the development principles through DevOps tools such as Kanban Board, Bitbucket, Jira, Jenkins, etc.
- Analyzed business issues, recommended solutions, demonstrated analytical and problem-solving abilities
- Worked with peers and business partners to understand financial decisions that maximize shareholder value

Projects

- **Movie Search Web-based Interfaces - Java (JDBC, JSP/HTML, JSTL, Java Servlet, JavaScript), *mySQL***
 - Developed a program with various functionalities that connects to *mySQL* database using JDBC
 - Using Java Servlet to respond to the user's requests and send the response to the server
 - Allowed users to view information regarding movies, including but not limited to, movie's title, director, genres, etc.
 - Allowed the users to check out any movie(s) with a valid information in the database
 - Designed a user interface through Android and web developments
- **Digit Recognizer - Python (Jupyter Notebook, Pytorch), *Google Colab***
 - Developed a program using image recognition to analyze handwritten digit and output the correct result
 - Designed an algorithm centering around the concept of Convolution Neural Network to correctly identify digits from a dataset of tens of thousands of handwritten images
 - Used the library of Pytorch to assist the progress of deep machine learning
- **Embedded System - C, *Embedded System Hardwares***
 - Designed an embedded computer centered around the ATmega32 microcontroller
 - Developed multiple projects including music player, voltage reader, electronic clock, etc.
- **iCampus - CSULB BeachHacks - Java (JDBC, Swing, *NETBEANS*), *mySQL***
 - Developed a system that allows users to browse on-campus events and fundraising activities that are published by organizations of their campus

Other Academic Projects

- **Multithreading - Java:** Developed a city train system consists of 5 trains stations and 5 trains with their own train track
- **Artificial Intelligence - C++:** Developed artificial intelligence to generate a maze, solve a maze, and play Othello
- **Data Structure - C++:** Developed several data structures, including Hash Table, Binary Tree and AVL Tree
- **Client/Server Address Book - C:** Developed a client/server application using socket programming
- **MapQuest API - Python:** Developed a GPS using MapQuest API to route a path from one location to another

Leaderships

Level V Origins - Director

JUNE 2016 - JUNE 2018

- Coordinated and organized a collegiate dance team with 70+ members
- Planned out schedules for rehearsals and performances
- Ensured the team is managed smoothly in every aspect such as internal, external, finance, artistic, etc.
- Provided a friendly and welcoming atmosphere to all members of the team
- Created artistic choreography and audio mixes for performance purposes

Vietnamese Student Association - ACE Chair

JUNE 2017 - JUNE 2018

- Organized a mentor - mentee relationship program within the organization
- Planned events throughout general meetings to provide an exciting atmosphere for general members