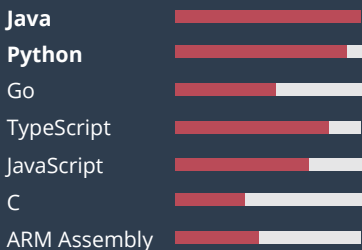# ZIXUN AI

EMAIL: aiz@uci.edu
PORTFOLIO WEBSITE: ai-zixun.com
GITHUB: github.com/Ai-Zixun
PHONE: (949) 220 - 3663
WORK AUTHORIZATION: US Permanent Resident

PROGRAMMING LANGUAGES

Java

Python

Go

TypeScript

JavaScript

C

ARM Assembly

FRONT END FRAMEWORK

React

Material-UI

Bootstrap 4

BACK END FRAMEWORK

Spring Boot

AWS Lambda

Flask

Node JS

DATABASE

DynamoDB

MySQL

PostgreSQL

DEPLOYMENT TOOL

AWS EB

Docker

EDUCATION

09/2013 – 06/2018
Bachelor of Science in Computer Science

UNIVERSITY OF CALIFORNIA, IRVINE (GPA: 3.916/4.0)

Honor:	Summa Cum Laude, Dean's Honor Lists, Phi Beta Kappa, Outstanding Service by an Undergraduate
Specialization:	Systems and Software & Intelligent Systems
Coursework:	Machine Learning via Minecraft, Principles of Operating Systems, Graph Algorithms

PROJECTS

In-Progress
Serverless Backend RESTful API

https://github.com/Ai-Zixun/Serverless_Backend_Expense_Tracker
- Developing a backend RESTful API using full serverless **AWS** services - **API Gateway**, **Lambda**, and **DynamoDB**.
- Self-studying **Go** programming language and developed the AWS Lambda functions using Golang, which create and retrieve items from DynamoDB tables.

09/2019
Paper Trading (A Stock Trading Simulator)

http://ai-zixun.com/paper-trading
- Developed a full-fledged CRUD application to simulate stock trading with functionalities such as placing orders, displaying user stock portfolios, stock charts, and technical indicators.
- Taught myself **Spring Boot** framework and used Spring Boot to implement the backend server. Utilized **React** with Material UI and **TypeScript** for frontend design, Spring Boot for backend server. Created over 50+ cases to unit test the service layer using Mockito, wrote over 3000+ lines of code across 10+ Spring Bean objects, and 15+ React classes.
- Deployed a live web application on AWS by communicating with IEX Cloud API to get stock data, storing user data onto a **MySQL** database, and running the live website using **Amazon AWS Elastic Beanstalk**.

08/2019
Little Ghost Chatroom

http://ai-zixun.com/chat-app
- Implemented a real-time CRUD application by using **Python** (**Flask IO** & **Socket IO**), **React**, and **PostgreSQL**. The project consists of 1000+ lines of code for the frontend React application and 500+ line of code for the Flask IO backend server.
- Deployed the application that allows the user to send and receive messages in real-time; the user could also create different chat rooms and fetch archived messages.

07/2019
Twitter API Application

http://ai-zixun.com/twitter-project
- Taught myself how to connect with the Twitter API to retrieve Twitter data. Built the application was built with **Node.js** (with Express.js) as backend server and **React** frontend to interact with users. The project took me 100+ hours over 4 weeks from learning how to create React application and develop a Node JS server to deploying the final project onto Amazon AWS.

03/2017
Survival of The Fittest

https://mingh2.github.io/SurvivalOfTheFittest/index.html
- Deployed and tested the agent in Minecraft via Malmo API using Q-Learning and Deep Q Network algorithm to learn how to survive under constant zombie attacks in randomly generated environments.
- Worked with teammate and frequently communicated with Professor. This project started with a vague idea without clear guidance and ended with a fully functional Minecraft Agent after hundreds of teamwork. Our project has also been selected as one of the top projects by the Professor during the midterm.

01/2017
Weather Prediction

https://www.kaggle.com/c/uc-irvine-2017w-cs178
- Implemented an algorithm to predict rainfall at a certain location based on infrared satellite image information. Through teamwork and collaboration, we utilized the bootstrap aggregation of a combination of KNN, Neural Network, and SVM machine learning algorithms. Our team is ranked 8th on the leaderboard among 212 different team from our class.

OTHER EDUCATION

09/2013 – 06/2018
Bachelor of Arts in Political Science

UNIVERSITY OF CALIFORNIA, IRVINE (GPA: 3.916/4.0)

Honor:	Summa Cum Laude, Dean's Honor Lists

09/2018 – 12/2019
Master of Science in Management

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE (LSE)

Expected Classification:	Distinction