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Education**University of California, San Diego**

Bachelor's degree, Computer Engineering, GPA: 3.73/4

Master's degree, Computer Engineering

San Diego, USA

09.2014 – 03.2019

04.2019 – 06.2021

Internships**Alibaba Group, Software Engineer Intern****Hangzhou, China 06.2019-09.2019**

- Worked in the top Chinese e-commerce company specializing in retail, internet and technology;
- Upgraded the logging system with asynchronous logging, safe shutdown and remote kafka consumer;
- Designed database tables and enabled cache operations for enhanced query performance and overall response time;
- Improved backend programming logics and added new functionalities for better retail business support;
- Utilized middleware such as HSF(RPC), Diamond(ConfigServer), MetaQ(kafka) for system extensibility;

Tech: Spring Boot, Java, MYSQL, Maven, Git, distributed system, Tair(Redis), MetaQ(kafka), RPC

MedDataQuest, Part Time Software Engineer Intern**San Diego, USA 03.2019-06.2019**

- Built a basic android app model with user authentication, profile page and simple utility functions;
- Set up local SqlServer for the android app to store user profiles and photos;
- Enabled a dynamic chat room between users with auto refresh and scroll down;
- Used Python packages to scrape/sort data and generate csv files from online resources;

Tech: Android Studio, Java, SqlServer, Python

Ctrip, Full Stack Developer Intern**Shanghai, China 06.2018 –09.2018**

- Worked inside the biggest Chinese online travel agency company;
- Programmed with IntelliJ IDEA and git command;
- Used Spring Boot, Java, SQL and Elasticsearch to build web applications with databases;
- Used Javascript and AngularJS to design, develop and modify webpages for enhanced user experiences;
- Modified existing projects' dependencies on SQL databases and added lookup functions to Elasticsearch;
- Upgraded the department's files uploading system and enabled logging to all operations;

Tech: Spring Boot, Java, Git, SQL, IntelliJ IDEA, ElasticSearch, JavaScript, AngularJS, HTML, JSON

Projects**Project In-class Question Assistant****09.2018-01.2019**

- Resp - Developed a dynamic web-based application for students to post questions and get answers during classes;
- Implemented the UI with React to enable user authentication and question posting system;
 - Used Firebase as the database to store user information;
 - Link: <https://cse110firebase-498ba.firebaseio.com/#/>

Tech: React, Javascript, HTML, Firebase

Project Oracle of Bacon Simulator**03.2018– 06.2018**

- Resp - The project aimed to validate the Six Degrees of Separation theory by using data structures and algorithms to compute the connection between any two actors;
- Used C++ to scan and store actor profiles and movie documents;
 - Modified Dijkstras' algorithm using breadth-first search, union find and priority queue to calculate the earliest or the shortest weighted path between any two actors by connecting movies and other actors;

Tech: C++, data structure and algorithm: Dijkstra's algorithm, Breadth-first search, Union-Find and priority queue

Project Facial Recognition with Deep Learning**09.2017–01.2018**

- Resp - Programmed with Python and OpenCV (Open Source Computer Vision Library) for image processing on AWS and Raspberry Pi;
- Established the framework of Convolutional Neural Network with Keras for facial recognition;
 - Completed automatic connections between AWS and Raspberry Pi for AWS to identify facial images taken by Raspberry Pi camera;

Tech: OpenCV, Python, Keras

Project "Connect Four" Game with C**01.2017 – 03.2017**

- Resp - Used C to design a "Connect Four" game that supports both single-player/multiplayer;
- Players will drop discs into a vertically suspended grid. The goal is to have four discs form a horizontal, vertical, or diagonal line before the opponent;
 - Programmed a decent level robot for practicing in the single-player mode;

Tech: C

Team Development

- Served as the group leader in various Raspberry Pi projects;
- The duty is to design overall architectures and to resolve key and difficult issues as a core developer;
- Applied Agile software development methods to formulate project plans and weekly meeting schedules;
- Designed test cases for project optimization, composed weekly reports and gave final presentation;

Skills

Language: Mandarin (native), English (fluent)

Software : Java, C, C++, Python, middleware, distributed system, HTML, CSS, MySQL, Linux, IntelliJ IDEA, Eclipse,

Spring Boot, RPC, Redis, TCP, JavaScript, React, AngularJS, data structure and algorithm, ElasticSearch, Git