Yi Ding

Santa Clara, CA 95051 alinayding001@gmail.com | (408)-622-0103 linkedin: yi-ding-b210561a3 | github: AlinaYI

EDUCATION

Northeastern University Sep 2022--Dec 2024

Degree: Master's Degree of Science in Computer Software Engineering

Relevant Courses: Natural Language Processing, Database Systems, Design and analysis of Algorithms, Web Design/User

Experience, Fundamentals of Distributed Systems, Program Structure and algorithms

University of California, Davis

Sep 2017--Jun 2021

Degree: Bachelor's Degree of Art in Applied Math

Relevant Courses: Computers in Technology, Machine Learning, Algorithm Design and Analysis, Operating Systems & System

Programming, Computer Architecture

SKILLS

Language: Python, Java, JavaScript, C/C++

Database: SQL/ NoSQL, Redis, RethinkDB, MongoDB **Frontend**: Bootstrap, Vue.js, React.js, Backbone.js

Backend: Node.js, Spring boot, Distribution system, JQuery, socket.io, cryptoJS, Django, Kafka

WORK EXPRIENCE

Menusifu Inc Nanjing

Software Engineer Intern

May 2022--Aug 2022

- Constructed and refined a large-scale online food ordering platform with over 1,000,000 registered users across 25 regions in China
- Engineered the front-end section of the customer-facing application with **React.js** provided the ability for customers to add/delete products according to discount
- Consolidated back-end logics and deployed server routes with **Node.js** and **Express.js**, and delivered online Payment Module with the integration of TLS and Stripe API
- Applied load balance with Linux Virtual Server (LVS) and Nginx to disperse users' requests to a Server cluster, increase daily activity up to 30,000, the cumulative users are 20,000, and the QPS reaches 200/s
- Integrated Mutex with SETNX in Redis and added in Memcache to reconstruct the system and solve cache penetration and cache avalanche issues, improved system availability by 200%

Bank of Beijing Nanjing

Data Intern

Jun 2018--Sep 2018

- Reorganized Hadoop, Kafka, Cassandra, and Storm to develop a lambda architecture that enables real-time big data processing
- Designed and structured **SQL** statement to query ad update over user data to produce **Node.js** to implement remote calling of PRC interfaces supplier cost, reducing the response time of multiple interfaces to **less than 1 second**
- Utilized Random Forest, Decision Tree, and Neural Network to train a model to help identify customers' qualifications for credit cards, and used ensemble modeling to help improve the efficiency by 13% and accuracy by 19%
- Formatted pre-heating process of uploaded files with the **FTP** server to achieve hierarchical **CDN**(Content Delivery Network) push, and improve the cache hit ratio by **34%**

PROJECTS

Covid-19 Data Source Nanjing

Web App

Mar 2021

- Launched a Covid-19 tracker web application with **Vue.js**, and **Node.js** to check world cases and recovery, specific country report
- •Optimized MySQL Database with **Dense Index** and **Query Caching** to shorten single query time by **71%** and consolidated the Recommender System with matrix factorization and neural networks
- Implemented Google Map API for a live interactive bubble world map

To-Do Lists

Nanjing

Web App

Nov 2020

- Developed the web stack of To-do lists with Flask, Backbone.js, and RethinkDB as the database
- Implemented Backbone.js to enable user initialized and modified connects between listing text
- Minify the code with Closure Compiler, JSMin, and Uglify to reduce page load time by 30%