

Fuyao Li

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EDUCATION

University of California, Irvine

Irvine, California

Department of Computer Science, Networked Systems, Master's Degree

09/2018-06/2020

GPA: 3.9/4.0 Courses: Database & web applications, Machine learning, Analysis of programming languages, Distributed Systems, Computer networks

South China University of Technology

Guangzhou, China

Electrical Engineering-Elite Class, Bachelor's Degree, Minor: Computer Science

09/2014-07/2018

GPA: 3.53/4.00 Student Award of Merit, 3rd class Scholarship, 3rd class Award in National Mathematical Modeling Contest

Courses: Java programming, Objected-oriented programming (C++), Database, Design and Analysis of algorithms, Embedded systems.

Skills

- Languages: Java, C, C++, JavaScript, Python, HTML/CSS.
- Frameworks: Spring, SpringMVC, Springboot, Spring Data JPA, Servlet, Spring Security, Restful Webservice, MyBatis, JQuery, Ajax, Bootstrap.
- Databases: MySQL, H2 database, Redis, MongoDB, GraphQL.
- Tools: Maven, Git, Postman, AWS, Google Cloud Platform, Tomcat, JMeter, Junit5, Mockito, Rest Assured, JIRA, Axure, Visio, Matlab.

INTERNSHIP EXPERIENCE

Ardent Labs

Part-time Software Development Intern, 02/2019-Present

- Build full stack web applications to do online teaching and student information management with Node.js, React, React Native and GraphQL.

Accenture

Software Development Intern, 07/2018-09/2018

- Implemented an online shopping mall application for Chinese Chemistry Trading Platform (the largest chemistry B2B e-commerce platform in China) with Spring, SpringMVC, Mybatis for backend; Thymeleaf, jQuery etc. for frontend.
- Deployed the application using Redis as Cache layer and implemented database based on Alibaba's HSF distributed system framework, decreased the range of (20% - 40%) response time by increasing databases' scalability and load balancing.
- Integrated work flow with Visio, designed core webpage prototype of sales promotion and logistics sections with Axure (more than 30% of the whole project) and documented corresponding software development specifications and interface specifications.

Yihuan Software Technology Company

Software Development Intern, 03/2018-06/2018

- Developed Java RESTful webservice applications (including a stage light control project and government registration system project) based on SSM framework (Spring, SpringMVC, MyBatis), used Maven to realize the project control, utilized MySQL as database.
- Implemented the frontend with Bootstrap, Datatables and HTML/CSS, utilized JavaScript, jQuery & Ajax to interact with the backend.
- Utilized TCP/IP to set up the connection between backend and WiFi module on lights and enhance packet transmission performance from 72% to 99.7% by optimizing the program and packet structure to solve stick package problem.

SELECTED PROJECTS

Fablix Movie Web Application (Similar to Netflix)

12/2018-01/2019

- Built a full stack web app selling movies using RESTful standard with multiply layers to support browsing, ordering and managing etc.
- Scaled MVC application (Java Servlet, Service, Dao) with MySQL master-slave replication, stored procedures, Apache load balancing, Apache JMeter, connection pooling and sticky session in Amazon EC2 and Google Cloud Platform. Tested average query time in multiply threads mode.
- Realized DOM Parser with XML dataset (Stanford movie), filtered irregular data and loaded 12000 movies into MySQL in 5 secs using CSV file.
- Interacted with web UI and a corresponding Android UI using jQuery, Ajax and secured login with reCAPTCHA, HTTPS & password encryption.

Springboot Restful Services Information Registration System

08/2018-10/2018

- Built a Java RESTful user information registration application which enable users to manage personal information with user interface.
- Implemented the application with Springboot, Spring Data JPA for backend and JQuery, JavaScript for frontend, MySQL as database.
- Tested application code with Junit5, Mockito, H2 database, and tested the RESTful APIs with Rest Assured.
- Implemented User account, email verification, password reset, system settings functions and secure Web Service with Spring Security.
- Deployed the WAR file on AWS EC2 server and enable password reset and email verification with AWS Simple Email Service (SES).

Emotion Classification System

10/2018-12/2018

- Utilized Keras API and VGG16 Net which has been pre-trained by ImageNet to processed more than 13000 pictures with 8 kinds of emotions, reduced the feature dimensions from 367500 to 512 on Google Cloud Compute Engine.
- Implemented CNN and took measures including adding dropout layers and increasing dropout rate, using binary cross entropy to reduce overfitting. Realized a 91.18% training accuracy and 87.17% estimation accuracy based on extremely imbalanced data.
- Trained the model with SVM, Decision Tree, Random Forest algorithms and analyzed the performance metrics with CNN.