Dingwen Pan

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SUMMARY

Seeking a summer intern software engineer position starting from June 2022.

Master student with 3 years of work experience. Project experiences on web development and mobile development. Strong knowledge of computer science and solid programming skills on Java , SQL, GO, and JavaScript.

EDUCATION

University of Southern California, CA, USA   Aug. 2021 – May. 2022 (expected)

Master of Science in Analytics   Major: Analytics   GPA: 3.9   Courses: Analysis of Algorithms

Shanghai Lixin University of Accounting and Finance, Shanghai, China   Sept. 2014 – Jun. 2018

Bachelor of Management in Accounting   Major: Accounting   GPA: 3.88 (ranking 1/60 in class)

Honor: Outstanding Graduate of Shanghai (0.1‰, province-wide); National Merit Scholarship (0.1‰, national level)

PROJECTS

OnlineOrder: A Spring and Hibernate based online food ordering system

- Implemented REST API via Spring MVC including registration, menu searching and ordering, checkout etc.
- Utilized Hibernate to access and operate the data storage (menu, restaurants etc.).
- Provided both authentication and authorization via Spring security to protect the application from malicious attacks.
- Used the Spring framework core technologies to loosely decouple all the components in the application.
- Built the client side with ReactJS and Ant Design to allow users to add items to the shopping cart and place orders.

Around: A Cloud and React based Social Network

Frontend

- Designed and implemented a social network web application with React JS.
- Implemented features for users to create and browse posts and support search nearby posts.
- Improved the authentication using token-based registration/login/logout flow with React Router v4 and server-side user authentication with JWT.

Backend

- Launched a scalable web service in Go to handle posts and deployed to Google Cloud (Google App Engine).
- Used ElasticSearch (deployed to GCE) to provide search functions such that users can search recent posts and list personal posts.

Starlink: React JS based Starlink Trajectory Visualization

- Designed and developed a visualization dashboard using ReactJS and D3 to track satellites in real-time based on geo-location.
- Built location, altitude, and duration based selector to refine satellite search.
- Animated selected satellite paths on a world map using D3 to improve the user friendness.
- Deployed the dashboard to Amazon Web Service for demonstration.

Tinnews: A Tinder-like News App

- Designed the Instagram Flavor News App based on Google Component Architectural MVVM Pattern.
- Implemented the bottom bar & page navigation using JetPack navigation component.
- Utilized 3rd party CardStackView(RecyclerView) to support swipe gestures for liking/disliking the news.
- Built the Room Database with LiveData & ViewModel to support local cache and offline model.
- Integrated Retrofit and LiveData to pull the latest news from a RESTFUL endpoint (newsapi.org).

WORK EXPERIENCE

China Europe International Business School **(Shanghai, China)**   Jul. 2018 – Jun. 2021

Project Manager & Data Scientist

- Developed and implemented two web applications simulating commercial competition and investment process.
- Led a team of 6 to process data by Python and MySQL, using machine learning models to improve accuracy by 11%.
- Built analytical dashboard by Python to enhance user experience.
- Collaborated in building database (Oracle) and user interface design and optimization.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, SQL, GO, Python

Databases and Cloud: MySQL, AWS EC2, AWS Lambda

Web/Mobile Development: Java Servlet, AngularJS, Node.js, jQuery, HTML & CSS, React, Firebase, Android