Yuepeng Chen

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Summary: Seeking an internship position as a software engineer.

EDUCATION

Boston University   Boston, MA
Master of Computer Science – GPA 3.5 / 4.0   Sep 2021 - Dec 2022
- Coursework: Operating Systems, Data Structure & Algorithm, Web Application Development, Software Quality, Testing and Security Management, Database Management

Zhengzhou University   Henan, China
Bachelor of Arts in Computer Science – GPA 3.2 / 4.0, Top 10%   Sep 2017 - Jul 2021
- Excellent Graduated of Henan Province
- President of student union

INTERNSHIP EXPERIENCE

DXC Technology   Beijing, China
Software Engineer Intern   May 2020 - Aug 2020
- Designed and built a UI for visualized 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 AWS CloudWatch for demonstration

Tsinghua-Cambridge-MIT Low Carbon Alliance Future Transport Research Center - Tsinghua   Beijing, China
Research Assistant   Jul 2019 - Nov 2019
- Used MySQL database on Aliyun RDS to store vehicle GPS data which contains over 100 thousand pieces of data
- Created frameworks about the web page and through used JavaScript and CSS to build up the website's front end to help professor's presentation
- Built a CNN through Pytorch, which the input is OD pair data, and to use back-propagation algorithm to calculate the weighted average, and finally get the importance of nodes and each intersection

PROJECT EXPERIENCE

Twitch+: A Personalized Twitch Resources Recommendation Engine
- Designed and built a full-stack web application for users to search twitch resources (stream/video/clip) and get recommendations
- Built a web page with rich + user friendly experience using React and Ant Design
- Created three Java servlets with RESTful APIs to handle HTTP requests and responses
- Used MySQL database on AWS RDS to store position data fetched from Twitch API
- Designed algorithms (e.g., content-based recommendation) to implement twitch resources recommendation
- Supported login/logout and favorite collection by providing a favorite button that allows users to tag videos they like, and the tagged videos will appear in the favor list
- Deployed to AWS EC2 for more visibility

Airbnb+: An online stay rental application based on React and Spring Boot.
- Designed and built a single page web application using React. Bootstraped the development with mature component library AntD
- Implemented the backend services based on Spring Boot to support stay upload, delete, search and reserve functionality
- Used MySQL to store user-generated data, e.g. stay information and reservation history, and utilized Google Cloud Storage to store media files for the uploaded stays
- Created geo index by Elasticsearch to support geo-based stay search based on user's selected locations
- Implemented token-based server side user authentication based on the Spring Security framework
- Deployed the backend service to Google App Engine for better scalability and reliability

News+: 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 data from a RESTFUL endpoint.

SKILLS

Program Languages: Java, JavaScript, SQL, Python, C, HTML & CSS
OS: Windows, Linux, Unix
Tools/Frameworks: React, Spring, Hibernate, Android, Rest
API Cloud/Databases: AWS RDS, GCP, ElasticSearch, MySQL