Jiapei Liang

Tel: (765) 337-3440 • Email: liang@jiapei.io • Github: liangjiapei • Website: jiapei.io

OBJECTIVE
Seeking full-time iOS developer position.

EDUCATION
Purdue University, Bachelor of Science, Computer Science   **May 2017**

TECHNICAL SKILLS
Languages: Objective-C, Swift, Java, Javascript, Node.js, HTML, CSS, Go, C++
Mobile: iOS, Android, React Native, Ionic **Frameworks:** React, Redux, Angular, Spring
Database: Firebase, MongoDB, SQL, Elasticsearch
Testing: JUnit, JMeter, Mocha, White-box Testing, Black-box Testing, A/B Testing
Development: Object-Oriented Design, Agile (Scrum), SDLC, Documents (Design, Sprint Planning, Retrospective)
Others: Logstash, Kibana, Bootstrap, Git, Google Cloud, BigQuery, Google AdMob, Google Map API, GAE, GCE

PROJECTS
EZDecide (Available in iOS App Store)
- Designed an iOS social network app for users who have difficulty in making decisions. Users can post their questions and other users can comment and vote on the post to help the owner of the post decide
- Using StackView to dynamically present two to four images for every cell
- Implemented device-to-device notification with Firebase and self-built server to notify users immediately when other users vote or comment on their posts
- Improved security by providing user authentication with Firebase
- Tested with 6 alpha test users to make sure every function perform as expected before demo
- Presented to professor and the EZDecide was chosen as the representative of projects with creativity

Yelp Clone
- Integrated Yelp API and used NSURLSession to fetch JSON of businesses info and parse into data model
- Used NSURLSession to fetch image by URL and update UI in main thread with NSData in completion block
- Implemented NSCache to cache fetched images to speed up rendering when scrolling up
- Displayed customize UITableViewCell in UITableView with search result
- Applied delegate pattern to UITableView by implementing UITableViewDataSource and UITableViewDelegate
- Used MKMapView to represents locations of restaurants with customized AnnotationView and customized CalloutAccessoryView
- Applied transitionWithView to flip view to display UITableView or MKMapView
- Provided filters to customize restaurant query to improve accuracy of searching result

Twitter Clone
- Integrated Twitter API to fetch tweets and users info to render UITableView
- Implemented retweet, reply, compose and favorite functionalities by integrated with Twitter API
- Applied BDBOAuth1Manager to use OAuth login flow and keep user logged in
- Assigned different priority to constraints to always display important info and may hide some other info
- Implemented method with NSMutableAttributedString and NSRegularExpression to highlight every hashtag(#), mention(@) and url
- Implemented infinite scroll to fetch more previous tweets

Circle: Geo-Index Based Social Network
- Developed an iOS app for users to post events and updates (description, geo-location, etc.)
- Built a scalable web service in Go to handle posts and deployed to Google App Engine for better load scaling
- Utilized Elasticsearch with Google Compute Engine to provide geo-location based search functions such that users can search nearby posts within a distance (e.g. 200km)
- Used Google Cloud Dataflow to implement a daily dump of posts to BigQuery table for offline analysis
- Aggregated the data at the post and user levels to improve the keyword-based spam detection (BigQuery)