

Mo Zhai

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Me

I am an experienced software engineer with years of professional practice. My experience covers using Objective-C, Java, .NET, C++, Javascript, and many other languages on top of most popular frameworks. I have delivered several enterprise web applications as well as mobile apps for business on both iOS App Store and Android Play Store. I am a hard worker with great learning skills and an enthusiastic heart for IT industry.

Skills

- **Frameworks:** iOS, Android, Liferay, ASP.Net MVC, J2EE, Lucene.Net, OpenGL, jQuery, AngularJS, Bootstrap, Dojo, GOOD security SDK
- **Language:** Objective C, Java, C#, JavaScript, C++, R, Php, Python, SQL, CSS, Html
- **IDE:** Visual Studio, Xcode, Eclipse, and etc.
- **Tools:** Git, JIRA, TFS, Bazaar, Unity3D, AWS, Azure

Experience

Full Stack Software Engineer @ Echelon Consulting, L.L.C.

5/2012 - now

- **Midtown.com:** Database design, ASP Web API backend implementation. Front-end backend using Drupal(php) and jQuery.
- **Midtown sales Mobile app for IOS.** From backend to mobile-end using ASP.Net and Objective C.
- **IMO Project:** Developed core financial web applications for global business using ASP.Net MVC, Dojo and Sql server.
- **Sidley Mobile:** Implemented iOS and Android apps (front-end to back-end) for a large law firm with more than 1,800 employees in 19 offices worldwide.
- **Atkearney.com:** Upgraded the company web site for a global management consulting firm using Liferay.
- **Location Tracking app for Atkearney:** Android and IOS.

Software developer internships @ Space to Play

2/2012 - 4/2012

- Accomplished a 3Ds Max plug-in in C++, which facilitates editing and visualization of urban 3D building models from geo-spatial database (PostGIS).

Graduate Assistant and Tech support @ CDM, DePaul University

01/2011 - 03/2012

- Maintained and managed network, server and other equipments for labs.
- Operated software deployment and testing for classes and events.

Network Engineer @ China TieTong- Equipment Center

08/2007 – 03/2009

- Analyzed, and refined the central node of the company PSTN network.
- Analytics tool development for a multiple million equipment upgrading project.

Education

University of Chicago

Master of Science in Analytics, Master Candidate

DePaul University

Graduation March, 2012

Master of Science in **Computer Game Development**, Graduate School of College of Computing and Digital Media
GPA=**3.98**

Tianjin Normal University

Graduation July, 2007

Bachelor of Engineering in Compute Engineering, emphasis on **Information Engineering**
GPA=**3.42** First rank scholarship

Project List

Midtown.com and Midtown Sales app

Capacity: ASP.Net Web API, Drupal, jQuery, Responsive design, Objective C, IOS

Responsibility:

Developed the national wide athletic club **website**. Designed and implemented the latest database and web service updates using Asp.Net Web API. Migrated the old web service from the existing SAM server to the REST server. In charged of front-end implementations, including payment, checkout, schedule-grid, become-a-member and other web UIs throughout the website, using Drupal, jQuery, and bootstrap.

Developed the internal club **iOS** sales app, including both iOS side and Asp.net server side implementations. This practice also includes using of CSI integration and credit card payment processing development. This app boosts the club sales significantly, and I am also in charge of daily supporting.

Link: <https://www.midtown.com/>

A.T. Kearney IMO Intranet project

Capacity: Asp.net MVC, Javascript, Razor, SQL, Dojo, amCharts

Responsibility: Developed a financial web application using ASP.net MVC framework. Set up the app infrastructure including SQL server database connections, entity framework, and javascript libraries. Implementing the web application services, layouts and UIs of each web page for the business logic from scratch. Implementing complex front controls using Dojo. These controls do dynamically/lazy loading and multiple/dynamic selecting and syncing. Created the TSQL scripts to made the backed end databases are dynamically inflated and updated by users.

Location Tracking For Atkearney Mobile

Capacity: IOS, Android, SQLite, Cordova, Javascript

Responsibility: Implemented the location tracking functionality for both iOS and Android App on top of Cordova framework. The app is able to track the location even users killed the app. The app has a well-written sync logic and makes the location tracking info is able to keep in a local database when the network is offline and sync to the server when the network is available.

Play store link: <https://itunes.apple.com/us/app/a.t.-kearney/id1041513817?mt=8>

SIDLEY mobile for iOS

Capacity: Objective C, Cocoa touch, Core Data

Responsibility: Developed Sidley marketing app for iOS5/6, and Developed brand new iOS7/8 app with flat-design. The app supports both iPhone and iPad, and it is optimized for iPhone 6/6plus by using auto-layout storyboard. In the app, dynamic contents are synced from the proxy server and persisted in device Core Data. UIs render updated data such as news, bio info, location info and other interests. This app also supports people and topics full-text searching.

App store link: <https://itunes.apple.com/us/app/sidley-mobile/id574510600>

SIDLEY mobile for iOS backend

Capacity: Asp.Net, Lucene.net, Python

Responsibility: Developed the searching APIs for SIDLY mobile. A standalone C# and Python application firstly pre-process target documents, and then it uses Lucene.net to create a full-text index of processed data. The .Net proxy server finally uses this index to dynamically create ranked topic list by comparing the similarities between grouped documents and input.

Developed the location APIs for the mobile app. The .Net based proxy server caches dynamic location info every few hours by querying Google Place API with given criteria. Then the server uses caches location data to fulfill mobile app requests in JSON.

Developed push-notification service in C# for Android GCM.

Developed the documents sync service on top of SQL Server database. CRUD operations on management pages lead to contents sync and notification push in the mobile app.

SIDLEY mobile for Android

Capacity: Java, Android, SQLite

Responsibility: Developed Sidley marketing android app from scratch to Play store. including testing, and deployment. The app is targeted from android 2.2. to 4.2, and it is based on fragment/activity UIs for both phone and tablet. Dynamic contents are synced from the proxy server and persisted in local SQLite database. A newly created ePub reader renders document based contents and a customized webView displays bio info of people in Sidley.

Play store link: <https://play.google.com/store/apps/details?id=com.sidley.sidleymobile.android>

Project List

Staffing availabilities Intranet project

Capacity: Javascript, dGrid, Dojo, JSP, Liferay

Responsibility: In charge of the development for a one-page web Intranet application to visualize staffing availabilities data. The web application sends async request to get data from backend server and saves the data to dStore. An Excel styled grid smoothly renders availabilities data in cells with column locking and scrolling. This web application also supports sorting, filtering and Excel exporting with multi-select dropdown widgets.

Atkearney.com Portal website 6.2

Capacity: Java, Javascript, Dojo, Liferay, Python, CSS, Responsive Design

Responsibility: Working on the portal migrations from Liferay 6.1 to 6.2. Created javascript widgets to replace old JSP contents. Developed and updated portlets and hooks for customized web UIs and functionalities. Created a distributable similarity comparing tools in python and writing Bean-shell scripts to support auto translation for more than 20 different country sites. Also working on portal theme updating to apply the responsive design.

Link: <http://www.atkearney.com/>

SIDLEY Doc Enterprise iOS App for Good Dynamic

Capacity: Objective C, C#, Good security (<https://www1.good.com/secure-mobility-solution/>)

Responsibility: Developed a highly secured mobile app for sensitive documents using Good SDK. In charge of data persistence migration from unsafe data store to encrypted Good CoreData in the mobile app. Took part in the development of the file explorer like UI with CRUD and searching supported. In charge of app updating from iOS SDK5 to 8 as long as Good SDK updating from 1.2 to 1.10.

A.T. Kearney: Ideas and Insights for iOS

Capacity: Objective C, Cocoa touch, LinkedIn API, PushSharp

Responsibility: In charge of flat design UI reimplementation, YouTube video playback, backend notification server updating, and social network integration. In the app, users can read or watch latest insights contents and post their opinions to Google Plus, LinkedIn, Facebook, and twitter.

App store link: <https://itunes.apple.com/us/app/a.t.-kearney-ideas-insights/id506749703>