**Xuelun (Sellen) Wei**

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**Summery**

Results-orientated, self-motivated Engineer with 2 + year working experience, worked in a fast-paced competitive start-up company. Ability to dig into issues, debug and solve problems individually.

**Skill**

**Programming**: Object-oriented design using **Java, Swift4**, web development using HTML5, JavaScript;

**Web & Data:** REST API, JSON, MySQL, NoSQL (MongoDB), database operation using **SQL**

**Computer Science:** Data structures and algorithms; Distributed systems design (MapReduce)

**Scripts & tools:** Git, Docker, MAMP, Apache Tomcat, JUnit, JMeter, Amazon Web Service EC2

**Education**

* ***Arizona State University, Tempe, Arizona***  GPA: 3.9 / 4.0 ***2013 - 2015***

Master of Science and Engineering in Electrical Engineering

* ***Sichuan University, Chengdu, China*** GPA: 3.7 / 4.0 ***2009 - 2013***

Bachelor of Science and Engineering in Electrical Engineering

**Project Experience**

* **Dashi, A Personalized Restaurant Recommendation Web Service (Java)**

Dashi, aims to use personalization to improve restaurant search and recommendation based on search history and favorite record.

* Developed an interactive web page (HTML5/CSS/Javascript) providing 3 main APIs to handle the HTTP requests of searching restaurants, updating preference and pushing recommended restaurants.
* Built a customized web service (Java servlet, REST API) to fetch restaurant data from Yelp API and store user preferences (MySQL/MongoDB).
* Improved content-based recommendation precision/recall by developing a collaborative filtering algorithm and matching similar restaurants based on categories.
* Deployed server side to Amazon (Cloud computing) EC2 which is able to handle **150 queries per second** (QPS) tested by Apache JMeter.
* **LinkItem Recommendation Application**

LinkItem is a project to provide better item recommendation (Books, Music Instruments, etc) using Amazon’s dataset.

* Extracted and purified features from Amazon dataset and prepared dataset for testing.
* Designed a MapReduce program in MongoDB to calculate similarity score between users.
* Designed a collaborative filtering algorithm based on similarity score to improve recommendation precision.
* **IOS Apps Development (10+ apps with Xcode 9 & Swift 4)**

Eg. Pokemon Go, Whatsapp, QuizUp and Yahoo Weather.

* Developed 10+ IOS apps based on MVC (Model-View-Control) design pattern using **Swift 4**.
* Made asynchronous API calls and use the JSON format for server communication.
* Used cloud- based infrastructure FireBase to store and retrieve data from Google Web Service.
* Implemented AI apps using iOS 11's new CoreML machine learning framework.
* Created 3D objects in augmented reality and created animations and real-life interactions using Apple's latest ARKit framework.

**Work Experience**

* **Design Engineer, Dialog Semiconductor, Inc *2015 - Present***

Dialog Semiconductor is the top power management supplier for Apple/Samsung/Huawei portable devices.

* Worked in fast-paced design group to develop chip level hardware system, daily job includes improving and simulating high-quality products using software tools based on Linux environment.
* Investigated design structures to meet market requirements. Products contributed 30% revenues.
* Utilized LabVIEW to automate test for double production test coverage and efficiency.
* Evaluated test data of over 80 test cases, debugged 10+ test failures and performed regression testing
* Designed test strategies individually for debugging across multi-platforms.
* Trained new grads with technical skills.