

Yue Sun (Harry)

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EDUCATION

Boston University, Boston, MA

Jan 2017 (anticipated)

M.S. of Computer Engineering (GPA: 3.57/4.00)

Tianjin University, Tianjin, China

Sept 2011 - Jun 2015

B.E. in Electrical Engineering (GPA: 8.9/10)

COURSES & SKILLS

Languages: **Java**, C, C++, C#, python, HTML/CSS, Javascript, JSON, XML, Verilog

Platforms: Eclipse, Visual Studio, Android Studio, Xcode, Linux/Mac OS

Courses: Data Structure and Algorithms, Mobile and Web Development, Cloud Computing, Big Data and Machine Learning, Database

ACADEMIC PROJECTS

Dashi: a personalized restaurant recommendation app

- Developed an interactive web page (**HTML/javascript**) for users to search restaurants, update preference and view recommended restaurants.
- Developed a web service (**Java servlet, REST API**) to fetch restaurant data from Yelp API.
- Utilized **MySQL/MongoDB** to store user preference and restaurant information.
- Designed and developed a filtering and sorting algorithm and matched similar restaurants.
- **Collaboratively** developed an **Android** app for users to search restaurants, update preference and view recommended restaurants. (ListView, MapView)
- Tested the web service and app with **unit tests** (JUnit).

Profile Master: to provide user profile management

- Developed a web application (**ASP.NET**) allow users to set up accounts with a login name and password and designed a web page by using **HTML/CSS** and **MySQL**.
- Improved the the server performance by using more efficient data structure and algorithm with **C#** and tested with 60 people to confirm the correctness of account and profile information.

User Churn Prediction: data analysis project

- Predicted which customers are likely to stop using service.
- Analyzed top-K factors that influence user retention.

Playlist Application: to provide music management and recommendation

- Developed music recommendation application using **Java** and designed UI by WindowsBuilder.
- Improved the recommendation system using efficient algorithm and data structure.

Navigating Intelligent Vehicle: navigate by touched LCD (<http://youtu.be/f7fguZNCff0>)

- Built up Bluetooth (**RFCOMM**) connection between two gumstix boards.
- Developed a **kernel module** to fetch data and calculate the route information for vehicle.
- Implemented a **C++** program into LCD screen with using **Qt** library.

WORKING EXPERIENCE

Railway Third Exploration and Design Institute Group, Co., LTD, China

Research Assistant

- Worked at Communication apartment to provide communication network construction project.
- Researched current trending in high-speed railway (HSR) mobile communication systems.
- Designed the the communication network layout by using Auto-CAD.
- Coordinated with other teams to evaluate the stability of communication.