Haoyang Mao

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Education

Tufts University Medford, MA**.** Dean's List

B.S. in Computer Science, **B.A. in Mathematics,** expected graduation in Aug. 2015.

Relevant Courses: Operating System, Real Analysis, Web Development, Computer System Security, Machine Structure

Projects

Pairing (Jul. 2014 - Currently Building)   **Mobile Application**   **Independent Project**
- Designed a social network mobile application written mostly in JavaScript that pairs up strangers.
- Used PhoneGap distribution of Cordova framework to support multiple platforms.
- Applied Facebook API and Twitter API to retrieve personal information when users create accounts.

AutoSelling (Feb. 2013 – May. 2013)   **Website**   **Team Project**
- Contributed to set up MongoDB as the website's database.
- Implemented location service using Geolocation API to determine user's location.
- Enabled users to upload or download data from Dropbox using Dropbox API.

Work Experience

ScanLaser (Wuhan, China)   **Software Engineer Intern**   2014 Summer

ScanLaser (www.scanlasertech.com) is a leading 3D scanner manufacturer, specializing in making non-contact active laser scanners. Following are specific contributions:
- Contributed to develop Visual Studio based software CloudProcess in C that merges the point cloud data with color photos, enabling point cloud data to be in the same color as the object it represents.
- Implemented part of calibrating system in C using Z. Zhang's algorithm from OpenCV to calculate intrinsic matrix, extrinsic matrix and distortion coefficients.
- Studied software tools like Geomagic to propose new functionalities to the software team.

Ruibo Technology (Changsha, China)   **Software Developer Intern**   2013 Summer

Ruibo Technology is a major electronics company focusing on developing electronic scales features cloud technology. Specific contributions:
- Designed Most of User Interface of new system of AO4X series scales using Microsoft Visual Studio.
- Contributed to managing front-end Oracle SQL database by editing tables and manipulating data.
- Ran usability tests on a new C# system with over 100 sets of random combinations of instructions.

Interests & Skills

Favorite Readings: *On Top of Tides, C Interfaces and Implementations, Internet Minds, Thinking Fast and Slow*

Programming Language: C, C++, C#, HTML5, JavaScript, CSS3, Python, Impcore, Scheme, Java

Speaking Language: Mandarin, English