Sihui Huang
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EDUCATION	B.S. in Computer Science	GPA:	3.94 / 4.0
	The University of Texas at Dallas	Expected:	May 2016

SKILLS

Programming Languages:	Python	Java	JavaScript	Ruby	Swift
Web Application Development:	NodeJS	Jetty	Ruby on Rails	AngularJS	REST API
Data Process and Storage:	Kafka	SQL	Oracle Database	Amazon S3	MongoDB
Web Frontend Relative:	jQuery	AJAX	HTML	CSS	Bootstrap
Mobile App Development:	iOS	Android			
Development Methodologies:	Agile	Scrum	Test Driven Development		

WORK EXPERIENCE

Software Development Intern - Salesforce, Matrix   **May 2015 - Present**
- Implemented a WebSocket component for continuously pulling data with low latency from Kafka, unit tested with JUnit and Mockito
- Developed a git branches management app in NodeJS; unit tested and functional tested with MochaJS, ChaiJS, and SinonJS
- Implemented a component for pulling data from clients' Amazon S3 Buckets to our distributed system
- Implemented REST APIs for core components in Java; unit tested with Groovy, JUnit, and Mockito

Backend Performance Engineering Intern - Salesforce, Sales Cloud PerfEng   **Feb 2015 - May 2015**
- Improved the performance of a filtering query after analyzed relative database structures, identified bottleneck with performance tests, and tuned the SQL query
- Analyzed data volume and data shapes in three major databases used by the team using SQL queries
- Visualized billions rows of data using D3JS; loaded billions rows of data using JMeter and Python Scripts

Engineering Intern - Dialexa, LLC.   **May 2014 - Dec. 2014**
- Developed a Ruby on Rails web application completely as a full stack developer, powered by AWS, MongoDB, Amazon S3, Google Map JavaScript API, jQuery, and AJAX
- Designed and implemented a REST API used by an iOS app, used JSON as data schema
- Developed an iOS app independently in Swift, powered by Google Map iOS SDK
- Improved and maintained three iOS apps, one Ruby on Rails app, and one NodeJS app

Research Assistant - Multi-Agent & Visualization Systems Lab at UTDallas   **Fall '13, Spring '14, Fall '14**
- Participated in the MATISSE (Multi-Agent based TraffIc Safety Simulation systEm) project
- Developed a Vehicle-to-Vehicle communication mechanism in Java for MATISSE

PROJECTS

FriendMate   -   **Chime Hack 2**   **July 2015**
An android app that promotes party safety by actively checking up on users at parties and reaching out to users' friends when users are drunk

Beagle   -   **Vinli Hackathon**   *1st Place*   **August 2014**
A Ruby on Rails app and an iOS app used for teenagers driving monitoring, including real time location tracking, exceeding speed limit alters, entering/leaving geo-fences alerts, and latest-seven-days driving history

Stealth Saver -   **AT&T Public Safety Hackathon**   *Best Use of AT&T M2X Apps*   **June 2014**
An android app that fights against human trafficking by sending emergency SMS messages to a preset phone number along with the user's location after the user activates it with voice commands; the user's locations will be updated every minute to a Google map

MarkIt   -   **Side Project**   **May 2014**
A web app that visualizes relationships between saved bookmarks; built with web2py, MongoDB, AngularJS, and D3JS

ACTIVITIES

Grace Hopper Celebration 2014 & 2015   Google Code Jam 2014   Society of Women Engineers