

# Sihui Huang

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**EDUCATION** B.S. in Computer Science  
The University of Texas at Dallas

**GPA:** 3.94 / 4.0  
Expected: May 2016

## SKILLS

<b>Programming Languages:</b>	Python	Java	JavaScript	Ruby	Swift
<b>Web Application Development:</b>	NodeJS	Jetty	Ruby on Rails	AngularJS	REST API
<b>Data Process and Storage:</b>	Kafka	SQL	Oracle Database	Amazon S3	MongoDB
<b>Web Frontend Relative:</b>	jQuery	AJAX	HTML	CSS	Bootstrap
<b>Mobile App Development:</b>	iOS	Android			
<b>Development Methodologies:</b>	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 into 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
- Implemented 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 alerts, 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