

Sihui Huang

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

GPA: 3.9 / 4.0
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 - Aug. 2015

- 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

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