

# Charlie Wang

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## EDUCATION

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### Carnegie Mellon University - Information Networking Institute, Silicon Valley, CA

The School of Computer Science and College of Engineering

M.S Information Technology and Software Management

Scholarship recipient of over \$25,000

Expected Grad: 12/2016

GPA: 3.76/4.00

### University of California, San Diego, La Jolla, CA

B.S. Computer Science & B.S. Biochemistry

Grad: 06/2015

## WORK & LEADERSHIP EXPERIENCE

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### Software Engineering Intern, Google, Mountain View, CA

05/2016 – 08/2016

Project: System Health Framework for Android Communication Apps

- Designed and developed analytical framework to collect **system health data on Android** devices
- Framework to scale for **9 different Google apps** including Project Fi, Google Hangout, etc.
- Integrated data visualization for regression analysis between app builds and releases
- Integrated multi-device coordination for communication tasks (calling, SMS, voicemail)
- Automated data collection to run on scalable infrastructure (**50+ devices**)
- Worked with complex build/deployment infrastructure at large scales

### Full Stack Software Engineering Intern, Simply Hired, Sunnyvale, CA

06/2015 – 09/2015

Project: Employment Data Analyzer

- Web application to analyze over **6 million raw job entries** and geographically locate employers
- Implemented a portion of the **job profiling module** to automatically “geo-tag” data obtained from web crawlers
- Designed algorithms to accelerate job lookup and data manipulation

### Software Development Intern, West Health Institute/Westech, La Jolla, CA

06/2014 – 06/2015

Project: Database and Workflow Design and Implementation

- Lead intern in design and development of a clinical distribution system (CDS) in effecting affordable health care
- Assisted in developing the central **workflow business-logic** and messaging schema between web services
- Assisted in developing the **database layer and object-level** representation of patient data

### Lead CSE Student Tutor, UCSD, La Jolla, CA

08/2014 – 06/2015

- Tutored undergraduate students in the theory and application of computer science
- Led small discussions and lab sections for fellow undergraduates for completing their assignment
- Assisted fellow undergraduates in programming projects with HTML, Javascript, CSS, Alice

### Leadership Programs Intern, Asian Liver Center, Stanford School of Medicine, Palo Alto, CA

06/2012 – 08/2012

Project: Annual Youth Leadership Conference

- Conference Executive for over 30 undergraduate and graduate staff members
- Managed over 100 exceptional high-school students

## Projects (Ongoing)

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Project: Interactive Interest Map (CMU)

- Web application which pools user interests based on location

Project: Boolean Retrieval Search Engine (CMU)

- Search engine for 550,000 documents indexed via Lucene

Project: QuickShopper (Personal)

- Android application to facilitate a better shopping experience

## Technical Skills

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Languages: **Java**, **Python**, Javascript, HTML, CSS, SQL, ReQL, BASH

Frameworks: **Django** (REST), **Android**, SL4A, Google OpenSource, Maven, Hibernate, JBPM, AngularJS(On-Going)

Libraries/APIs: **Bootstrap**, Pure, JQuery, Google Maps/Places API, Open Street Maps, BartAPI, UIAutomator, Monsoon

Tools: Eclipse, IntelliJ/AS, **RethinkDB**, Redis, Elasticsearch, AWS, **Postgres**, MySQL, Lucene

Software Development: **Agile**, Scrum, **Git**, SVN, **Linux**, **MacOS**, Windows