Charlie Wang

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EDUCATION

Carnegie Mellon University - Information Networking Institute, Silicon Valley, CA   **Expected Grad: 05/2017**
The School of Computer Science and College of Engineering   GPA: 3.76/4.00
M.S Information Technology and Software Management
Scholarship recipient of over $25,000

University of California, San Diego, La Jolla, CA   Grad: 06/2015
B.S. Computer Science & B.S. Biochemistry

WORK & LEADERSHIP EXPERIENCE

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)

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: QuickShoppe (Personal)
- Android application to facilitate a better shopping experience

Technical Skills

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