

Don Han

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Education

University of California, Berkeley

B.A. in Computer Science, B.A. in Sociology,

Berkeley, CA

Expected graduation of May 2016

Technical Skills

Languages: Python (2,3), R, Java, C, Bash script, MIPS

Data: Apache Spark, SQL, JSON, AWS EC2

Mobile: Android

Dev Env: Git, Vim/Tmux, Eclipse, Logisim

OS: Linux (Arch/Ubuntu), Windows, BSD/UNIX

Optimization/Parellization: OpenMP, SIMD/SSE, xargs

Web: MEAN, Socket.io, JavaScript/JQuery, HTML/CSS

Misc.: Arduino, Raspberry Pi, L^AT_EX

Professional Experience

IBM Watson

Software Engineer intern

Greater Boston Area

June 2015 – August 2015

- Engineered a parallelized, automated Bash script which collects metrics through REST API 3x faster than the serial script
- Visualized the usage trends using IBM RAVE from a dataset which was a raw data cleaned up by Python scripts
- Analyzed the usage patterns such as the peak usage period and the relationship between confidence and question length

Ewoo Software

Software Developer Intern

Seoul, Republic of Korea

May 2014 – June 2014

- Proposed Software Requirement Specification (SRS) and Market Requirements Document (MRD) for a new Android app
- Developed an Android tablet app in which a dentist and a patient can examine the dental images of the patient together

Seodole Publishing Company

Web Developer

Seoul, Republic of Korea

May 2013 – August 2013

- Designed a website with Wordpress.org and customized it with HTML/CSS

Projects

Personal

BeThere: An Android app that boosts your productivity by helping you be at the most productive environment

Vercon: A version control system for a single user without any access to internet. Written entirely in Bash for compatibility

Debate Club: An online chatting application to discuss a given topic. Made with MEAN stack and Socket.io

Getting Pomodoros Done: TUI productivity tool developed with SQLite3 (prev. JSON) and Python's UI library (urwid)

Moody Poker: Poker game developed with Java Swing and AWT libraries. Each AI is given mood status that affects game

Academic

Pacman Agent: Used AI/ML algorithms (A*, MDP, RL, Perceptrons, MIRA) to build an utility-maximizing rational agent

Fifteen puzzle solver: Deployed Apache Spark framework with AWS EC2 to find a solution 5x more effectively

Twitter Trends: Developed a geographical visualization of Twitter data across USA

Optimization: Utilized parallelization techniques such as SSE and OpenMP to make code 30x more efficient

Membership

Committee of Korea Studies

Study Group Leader

UC Berkeley

January 2012 – May 2014

- Analyzed social trends of Korea based on topics such as 2012 Presidential Election and globalization of Korean culture (K-pop, etc)
- Organized data analysis results into PowerPoint slides which were presented in front of 50+ people weekly