Kenneth Lin

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Work Experience

May 2013 – Aug 2013

Analytics Engineering Intern at Lumosity
Analytics / DevOps

★ Designed and implemented a completely fault-tolerant, real-time event server in Rails. If the system failed at any point, it would be able to recover on the next startup using write-ahead logging

★ Designed and created ETLs to integrate Zendesk's customer service data with Lumosity's data warehouse, and implemented various reports for the data collected

★ Other work with Rails, MySQL, Chef, Nagios, and ops

July 2012 – August 2012

Software Intern at Baidu, Inc.
Big Data

★ Designed and performed a custom Holt-Winters time-series analysis on page-view data. The model, accounting for irregularities due to Chinese lunar holidays, was created using R and C

★ Created scripts to partially automate the restructuring of all of Baidu's logs into a new, more orderly format. Worked in bash and MySQL

Projects

November 2012

RC Car Hacks at H@B-IEEE Hackathon
Best Hardware Hack

★ Two remote control (RC) cars were enhanced as this hardware hack

★ One used an electroencephalogram (EEG) to detect brain waves and used variations in these brain wave signals to control the movement of the car

★ Another was mounted with a Wii controller and a ultrasonic sensor to detect nearby 'targets', after which it would throw out its scorpion-like tail to sting the target with camera capacitors

★ Awarded "Best Hardware Hack"

November 2012

Hack at Chain Reaction Hackathon
First Place*

★ Rube Goldberg machine that intertwined software with hardware, chaining a myriad of otherwise completely unrelated components

★ APIs and languages such as Twilio, Facebook, Arduino, Node.js, Android, JavaMail, PySerial

★ *Awarded first place, but we forfeited our place because we started our project before the hackathon so that we could finish the project, which was more important for us than winning a prize.

Education

2011 – 2015	**Bachelor of Science** ELECTRICAL ENGINEERING & COMPUTER SCIENCE GPA – 3.94, CS Technical GPA – 4.00 *University of California - Berkeley*
2007 – 2011	**IB Diploma** GPA – 4.08 *International School of Beijing*

Awards

2012	**Best Hardware Hack** *H@B-IEEE Hackathon*
2010	**Schoolwide Top Achiever** *American Mathematics Competition*
2009	**Gold Standard** *Fryer Mathematics Contest*

Technical Skills

Fluency	Ruby, Python, Java, Linux/bash
Experienced	HTML, JavaScript, CSS, LaTeX, C web design, Rails, node.js (express.js) Arduino, MIPS Assembly, MySQL
Learning	R, Sage, Cython, OpenMP

Languages

ENGLISH · CHINESE · FRENCH · JAPANESE

Interests

SELF-IMPROVEMENT · MOTIVATION · AI · BCI
LANGUAGES · RELIABILITY · OPEN SOURCE
SOCIAL DYNAMICS · PIANO · LONGBOARDING

Organizations

NATIONAL SOCIETY OF COLLEGIATE SCHOLARS
HACKERS @ BERKELEY · ORATORY @ BERKELEY
BERKE1337