

KENNETH LIN

WORK EXPERIENCE

MAY 2014 – AUG 2014

Production Engineering Intern at FACEBOOK

Data Performance / Data Infrastructure

- ★ Designed BeeKeeper, a system to estimate Hive query CPU usage and preemptively kill large queries. Achieved good accuracy and ability to identify extremely large queries. Worked with full stack of Facebook internal infrastructure
- ★ Various improvements to Apache Hive internals

MAY 2013 – AUG 2013

Analytics Engineering Intern at LUMOSITY

Analytics / DevOps

- ★ Designed and implemented a fault-tolerant, real-time event server in Rails. Full recovery with write-ahead logging
- ★ Created ETLs to integrate Zendesk customer service data with Lumosity's data warehouse, and implemented relevant reports
- ★ Other work with Rails, MySQL, Chef, Nagios, and ops

JULY 2012 – AUGUST 2012

Software Intern at BAIDU, INC.

Big Data

- ★ Performed a custom Holt-Winters analysis on page-view data accounting for irregularities caused by Chinese lunar holidays
- ★ Created scripts to automate backup of Baidu logs

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.



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EDUCATION

2011 – 2015 **Bachelor of Science**

ELECTRICAL ENGINEERING
& COMPUTER SCIENCE

GPA – 3.95, 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, JS, CSS, L ^A T _E X, C
	Rails, Sage, node.js (express.js)
	Arduino, MIPS Assembly, MySQL
Learning	R, Cython, Hack

LANGUAGES

ENGLISH · CHINESE · JAPANESE · FRENCH

INTERESTS

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

ORGANIZATIONS

NATIONAL SOCIETY OF COLLEGIATE SCHOLARS
HACKERS @ BERKELEY · ORATORY @ BERKELEY
FACEBOOK CAMPUS AMBASSADOR