

# Wei Zhong

zhongwei@udel.edu

## EDUCATION

UNIVERSITY OF DELAWARE  
M.S. in Electrical and Computer  
Engineering

August 2015 | Newark, DE, USA  
Cum GPA: 3.867 / 4.0

JILIANG UNIVERSITY (CJLU)  
B.S. in Information and  
Computation Science  
2009 ~ 2013 | Hangzhou, P.R. China

## COURSEWORK

### GRADUATE

Artificial Intelligence  
Compiler Design  
Computer Networks II  
Embedded System Design  
Principle of Parallel Comp. Architecture  
Search and Data Mining  
Statistical Learning  
Database System

### UNDERGRADUATE

Complex Variables Functions  
Discrete Mathematics  
Elementary Algebra  
Elements of Information Theory  
Mathematical Analysis  
Numerical Analysis  
Ordinary Differential Equation  
Probability Theory

## SKILL SET

### PROGRAMMING

• C/C++ • Shell (Bash) • Python • R  
• Yacc/Lex • SQL • PHP • HTML/CSS  
• jQuery/AngularJS/Vue/nodeJS

### TOOLS

• Git • Docker • Redis • Nginx  
• Whoosh/CLucene • JIRA • Confluence

## LINKS

Github :<https://github.com/t-k->  
Blog :<http://tkhost.github.io/blog>  
Stack Exchange :  
<http://stackexchange.com/users/3244601/wei-zhong?tab=accounts>

## CAREER

HUAWEI TECHNOLOGIES CO. LTD. | Software Developer  
(BrandZ' s Top 100 Global Brands Company, 2015)

2016 ~ Now, Shenzhen, China

- Hardware abstraction layer (HAL) code maintenance.
- Peach Fuzzing test on-device driver development.

SEVONE | S.M.A.R.T.S program, WEB backend intern  
(2015 Glassdoor best places to work)

Jun, 2015 ~ Aug, 2015, Wilmington DE, US

- PHP, C++, MySQL development.
- Search engine back-end rewrite using CLucene.

## PROJECTS

1. APPROACH0 A math-aware similarity search engine  
<https://github.com/approach0>

Combined math expression search and fulltext search with math commutative rules awareness and math symbol alpha-equivalence awareness. Supports BM25 Okapi scoring, proximity search and search results highlight. Highly optimized efficiency. Published a paper on ECIR2016 and a demo on <https://approach0.xyz>.

2. VOICE INSTEAD A TTS(text to speech) browser extension  
<https://chrome.google.com/webstore>

An extension available on Google Chrome Webstore with over 10K weekly users. It helps convert text on browser into speech. I write an algorithm to load two voice buffers, and play voice truck by turns. It can read extremely long content smoothly. Written in jQuery, HTML5 and using jPlayer.

3. SMART KEYBOARD Self-learning multitouch keyboard

My undergraduate thesis project which uses both BP network and SVM/SMO algorithm to learn and adapt user finger positions, helps users do “blind-strike” without worrying about hitting the wrong key. Hardware is based on two GOODIX GT811 5-points touch-screens.

4. TTL-CPU A homebrew 8-bit TTL-CPU design  
<https://github.com/t-k-/my-ttl-cpu>

I realise the circuit in Multisim. The CPU can run a simple program in 6116 RAM whose initial content is written by a 8052 chip.

5. PERSONAL WEBSITE Personal blog and technical notes  
<http://tkhost.github.io/blog>

An AJAX style blog using vanilla Javascript code mostly written by myself. I use it to write technical notes as a way to inspire my study.