

Hao Zhou

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<https://github.com/zhouhao>

EDUCATION

Worcester Polytechnic Institute, Worcester, MA

Master of Science, Computer Science

Aug 2012 - May 2014

Dalian University of Technology, Liaoning, China

Bachelor of Engineering, Computer Science

Aug 2008 - Jun 2012

SKILLS

Languages: JavaScript/Ajax(jQuery, Angular, node), Java, Python, CSS(Bootstrap), PHP, C

Database: MySQL, MongoDB, MSSQL *Tools:* Sublime Text, Eclipse *OS:* UNIX, Windows

RELATED EXPERIENCES

1. System architect & developer - Smarking (MIT startup Intelligent Parking Systems) Feb 2014 - Present (Boston, MA)
 - Developed server side with Java in MVC, and implemented RESTful service.
 - Implemented client side with Bootstrap and jQuery. Client can get data from server by Ajax requests.
 - Designed and Implemented two-level cache: server and client cache, to improve web performance.
 - Implemented and improving iOS/android mobile apps.
2. Developer for a TODO list App (Personal Open Source project) May 2014 - Jun 2014 (Worcester, MA)
 - Implemented Web Service in Java.
 - Implemented apps for iOS, android, windows and mac with PhoneGap and node-weebkit.
 - Apps communicate with server with Ajax requests through API
3. Founder & Developer for [WPILIFE](#) Website (Personal Open Source project) Jul 2013 - Apr 2014 (Worcester, MA)
 - Created and maintain a website for WPI international students with life services and an information sharing platform.
 - Developed back-end using PHP MVC framework(Codelgniter), and design user interface with Bootstrap and jQuery.
 - Implemented RESTful Services for third-party developers.
4. E-commerce Developer - Achemtek (Internship) May 2013 - Sept 2013 (Worcester, MA)
 - Developed the website with PHP, on which this company is relying to deal with all orders around the world.
 - Implemented a powerful back-end system, which can help administrators to track every order status.
 - Optimized SQL statements to speed up database queries.

PROJECTS

1. Design and implement a small Operating System (Individual project using C) Sept 2013 - Nov 2013
 - Designed data structures for PCB node and different system queues (ready queue, time queue, suspend queue).
 - Implemented an interrupt system in relation to a multi-process, non-virtual-memory environment.
 - Implemented virtual memory support; page fetch, replacement algorithms and shared memory; disk driver support.
2. Big Data Project (Course project using Java - team leader) Sept 2013 - Nov 2013
 - Studied kernel code of Hadoop and developed a Customer Input Format class.
 - Implemented K-Means clustering with MapReduce jobs (2D numeric vectors & 100 thousand real tweets) & Mahout.
3. TCP Network Storage (Course project using C - team leader) Mar 2013 - Apr 2013
 - Made client send the most updated files to/get files from the Server with commands based on last modified time.
 - Designed our own packet structures of frame and package, and implement a sliding window protocol with Go Back N.
 - Implemented identity authentication for multi-users & concurrency with multi-processes.

ACTIVITIES

Developer for Smarking at MIT Global Founders' Skills Accelerator 2014

Jun 2014 - Sep 2014

IT director for MIT-China Innovation and Entrepreneurship Forum

Aug 2013 - Present

Founder of on-campus TaoBao Club, and technical instructor for club members

2010-2012