

# Hao Zhou

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## OBJECTIVE

Full-time job or internship focused on software engineering.

## EDUCATION

**Worcester Polytechnic Institute**, Worcester, MA

Master of Science, Computer Science

May 2014

**Dalian University of Technology**, Liaoning, China

Bachelor of Engineering, Computer Science

June 2012

**Honor:** Outstanding graduate of DLUT

## RELATED COURSEWORK

C/ Java language programming, DBMS/Hadoop, Computer Networks, Data Structure, Algorithm Design, Operating System, Computer Compilers, Computer Architecture, Artificial Intelligence

## SKILLS

*Languages:* C (proficient), Java (proficient), Python, Perl, JavaScript

*Database:* MySQL, MongoDB, MSSQL

*Tools:* Sublime Text, Eclipse, Visual Studio

*OS:* UNIX (Ubuntu & Mac OS), Windows

## PROJECTS

1. Design and implement a simple operating system (Course project using C) 2013.09~present
  - ✓ Implemented an interrupt system in relation to a multi-process, non-virtual-memory environment.
  - ✓ Undertaking virtual memory support; page fetch, replacement algorithms and shared memory; disk driver support.
2. OpenGL for Computer Graphics (Course project using C/C++) 2013.09~present
  - ✓ Implemented FIVE projects: [Interactive Polyline Viewer 2D](#) | [Interactive Ply Viewer 3D](#) | [Hierarchical 3D Modeling of L-System Trees](#) | [Texturing Shadows and Fog](#) | [Image Manipulation](#)
3. Big Data Project (Course project using Java) 2013.09~ 2013.11
  - ✓ Studied kernel code of Hadoop and developed a Customer Input Format (Default Hadoop input is one line one record, and I made it multi-lines one record).
  - ✓ Implemented K-Means clustering with MapReduce jobs (2D numeric vectors & 100 thousand real tweets) & Mahout.
4. TCP Network Storage (Course project using C) 2013.03~2013.04
  - ✓ Made client send the most updated files to/get files from the Server with commands (According to last modified time).
  - ✓ Implemented identity authentication for multi-users & concurrency with multi-processes.

## RELATED EXPERIENCES

1. Developed [WPILIFE](#) Website with my spare time (Life service for WPI students) 2013.07 – Present
2. Worked as a volunteer programmer for a startup (Article Recommendation Service) 2013.04 – 2013.09 (Boston, MA)
3. Developed an E-commerce website for a bio-chemical company for my Internship 2013.05 –2013.08 (Worcester, MA)

## ACTIVITIES

- IT Director for MIT-CHIEF (Association in MIT) 2013.08– Present
- Volunteer for WPI TouchTomorrow Festival 2013.06
- Head of IT department of CSSA (Chinese Students & Scholars Association) in WPI 2013
- Implemented an online Test & Exam system for Dalian Polytechnic University 2012
- Founder of on-campus TaoBao Club, and technical instructor for club members 2010-2012
- Silver Awards for Nokia Youth Start-up Business Plan Competition 2009

Find more info about me: <http://www.linkedin.com/in/sbzhouhao> <https://github.com/zhouthao>