SHAOWEI SU

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EDUCATION

UNIVERSITY OF ROCHESTER — ROCHESTER, NY

Master of Science in Computer Engineering, *GPA:* 3.68/4 — **expected Dec 2015**

- *Selected Courses:* Dynamic Language and Software Development, GPU Parallel C/C++ Programming, Parallel and Distributed System, Database System, Operating System, Computer Network, Advanced Computer Architecture

TONGJI UNIVERSITY — SHANGHAI, CHINA

Bachelor of Science in Electronic and Information Engineering, *GPA:* 101/110 — **September 2014**

- Outstanding Graduate Student, National Scholarship

POLITECNICO DI MILANO — MILAN, ITALY

Bachelor of Science in Engineering of Computing Systems, *GPA:* 80/100 — **July 2014**

WORK EXPERIENCE

UNIVERSITY OF ROCHESTER — ROCHESTER, NY

Software Engineer Intern, Clinical Education Initiative (CEI) Team — **May 2015 – Present**

- Developed and published iOS app *CEInema* to provide streaming videos for medical education research
- Integrated third party frameworks including Google Analytics, SWXMLHash, MBProcessHUD and SDWebImage
- Combined iOS app with web-based interactive case simulation tools that provides customized clinical guidelines; server side implemented by JSP and frontend used jQuery Mobile to support cross-platform, responsive web design
- User interactions are tracked by AJAX to SQL Server database and processed by Java engine with SPSS and Gephi API

Research Assistant, Deception Study, Human Computer Interaction Laboratory — **Sep 2015 – Present**

- Developed an interactive website for advanced live video chatting through WebRTC server together with research team
- Implemented server side engine using the Java Sprint Boot architecture using WebSockets and JSON
- Used Bootstrap for UI design and Git as version control system

COURSE PROJECTS

Pthread/MPI/CUDA/Hadoop Parallel Data Process — **Sep 2014 – May 2015**

- Implemented parallel solutions for Gaussian Elimination with Pthreads, MPI and OpenMP
- Developed Nvidia CUDA programs to solve MergeSort and Blowfish Emcryption in massive parallel
- Accelerated Python computation speed hundreds times faster by NumbaPro/LLVM compiler and multicore GPUs
- Gained practical experience on MapReduce programming to solve Matrix Multiplication and Jacobi Iterative Method

Music Sharing Website & Database Design — **Jan 2015 – May 2015**

- In team of three, created a website that supports CRUD operations to interact with MySQL database
- Project development based on Entity-Relationship Model, Apache Server/MySQL/PHP structure and Semantic UI

Distributed Desktop Shopping System — **May 2014 – July 2014**

- In group of two, built a distributed desktop application for an online computer store in Java
- Client side utilized Java/Swing GUI in NetBeans IDE; via the connection built on RMI, client side are connected to server side and interacts with MySQL database for CRUD operations

MAJOR SKILL SETS

Java, Python, C, Swift, JavaScript, jQuery, HTML, CSS, PHP, JSP