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:* 80/100   **September 2014**

- Outstanding Graduate Student, National Scholarship

POLITECNICO DI MILANO   MILAN, ITALY

Bachelor of Science in Engineering of Computing Systems, *GPA:* 101/110   **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
- Tracked user interactions 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
- Extracted pupil movement features and processed with Butterworth filter to get eye movement activity level

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 allows users to create playlists and share with each other
- Project development based on Entity-Relationship Model, Apache Server/MySQL/PHP stack 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

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

Languages: Chinese (native speaker), English (Fluent), Italian (Intermediate)