Wendi Weng *Jan 7, 1989*

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About me

Enthusiastic, collaborative, optimistic, open and eager to learn.
Interested in writing software, dancing, designing, and traveling.
Live a life full of "Explore. Dream. Discover."

Research Interest

Machine Learning, Data Mining, Computer Vision, High Performance Computing

Education

Beijing Jiaotong University (BJTU)   BEIJING, CHINA
    M.S. degree in Electronic and Information Engineering (Class Rank 1/20)   *2012 – expected Mar '13 2015*

Jilin University (JLU)   JILIN, CHINA
    B.S. degree in Telecommunication Engineering   *2008 – 2012*

Publications

- **Wendi Weng**, **"Research on detecting rail-steel's surface flaws using a quick adaptively comparing algorithm based on machine vision,"** Journal, Month Year...pending

Employment and Experience

China Mobile Group Design Institute   BEIJING, CHINA
    Networking Software Engineer Intern   *Sept'14 – present*

- Involved in migrating codes of Monte Carlo based simulation platform from **C** to **C++**, which simulates the interference of multiple other communication systems to LTE system, including main modules such as modeling, interference calculation, encoding scheme selection, and comparative SNR output etc.
- Involved in tests of interference between TD-LTE and Radar system in 2,300-2,400 MHz; Designed and configured test network topology; Designed test framework and generated **Python** automation test scripts analyzing the interference under all different situations of configured systems.
- Involved in developing spectrum management web service that provides availability and information of inquired spectrum band; Designed the frond-end of spectrum inquiry input/output and interface to be integrated with other services under **ASP.NET** framework.
- Researched on empirical formula and algorithm to analyze and detect interference type between different wireless systems and TD-LTE system, which significantly improves the analyzing time and efficiency compared to manual analysis mostly used in current China Telecom industry; Imvolved in developing the software using **C#**, including main modules such as **MySQL** data input, classification algorithm, and output analysis etc.

Beijing Jiaotong University   BEIJING, CHINA
    Research Assistant   *Mar'14 13 – Aug'14 13*

- Involved in developing and maintaining Coal Project Management System using **C++**.
- Designed and developed the HR management subsystem, including the connection to the database and main system.

Course Projects

Human Face Detection System (Digital Image Processing)   *2014*

- Implemented a fast face detection algorithm based on image matching and gray value, which correctly identifies 80+% faces in typical photos despite the range of lighting conditions, angles and facial expressions.

Josephus Permutation Counting-out Game (Data Structure and Algorithm)   *2013*

- Implemented JP problem with varied count stored in low complexity data structure using **C**.
- Implemented game GUI in **LABVIEW**.

Student Grading Management System (Intermediate Programming Design)   *2011*

- Implemented SCRUD features using **C**; Stored and operated data in **MySQL**.

Date and Time Display (Foundation and Application of Microcontroller)   *2010*

- Implemented date and time on 80C51 using **Assembly**.

Extracurricular Activities

- **Main Organizer**   - Graduate School Annual Performance Events (1,000+ ppl.)   2013, 2014
- **Main Organizer**   - IEEE student branch in Beijing Jiaotong University (20+ ppl.)   2013 – 2014
- **Student Volunteer**   - Graduate School Alumni Reunion; Performance in Geracomium   2013
- **Main Organizer**   - College Annual Performance Events (1,500+ ppl.)   2009, 2011
- **Vice Captain**   - Champion college volleyball team (among 20+ college teams)   2010, 2011
- **Leading Actress**   - 'Footprints' (First movie filmed by students in my college)   2010
- **Student Leader**   - D-D Change Club (100+ ppl.)   2009

Honor and Awards

- Graduate Fellowship, BJTU   2012, 2013, 2014
- Most Improved Student Award, BJTU   2014
- Excellent Volunteer, BJTU   2013
- Excellent Student Organizer, BJTU   2012, 2013
- Excellent Student Organizer, JLU   2009, 2010
- Undergraduate Fellowship, JLU   2008

Technical Skills

- **Programming Languages**: C, C++, C#, Python, Shell, MATLAB, Assembly, Visual Basic, LaTeX
- **Web Programming**: ASP.NET, HTML, CSS, Javascript, XML, JSON, SOAP, REST, Apache
- **Networking**: 2G/3G/LTE Networks, TCP/IP, HTTP
- **Operating Systems**: Windows, Mac OS, Unix, GNU/Linux
- **Softwares**: Visual Studio, MySQL, Git, Wireshark, VMware vSphere
- **Excellent Object-Oriented development skill**
- **Familiar with Agile/Scrum software development life cycle**