Qian (Arthur) Wang

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SUMMARY

A drumset performer, pop singer, soccer player and quick CS learner with solid algorithm design and analysis background is looking for a software developer internship position during summer 2016.

EDUCATION

University of California, San Diego (UCSD) 09/2015 – 12/2016
– M.S. in Computer Science (GPA: 3.90 / 4.00)
– Courses: Artificial Intelligence, Operating System, Database

Shanghai Jiao Tong University (SJTU) 09/2011 – 08/2015
– B.E. in Electrical & Computer Engineering (GPA: 3.74 / 4.00, Rank: top 3%)
– Courses: Network, Compiler, Computer Organization, Software Engineering, Cryptography, Embedded System

SELECTED PROJECTS*

Eye: Color-Blind Friendly Chrome Extension 10/2015
– Designed a flat UI of the Chrome extension with HTML/CSS.
– Enabled users to experience four types of color blindness by mixing RGB channels through JavaScript.
– Applied the Gaussian blur to simulate the nearsightedness with the CSS filter and JavaScript.
– Aided the color blind to distinguish contents on websites by hue rotating with the CSS filter and JavaScript.

Head Wearing Eye-Tracking Camera 09/2014 – 12/2014
– Utilized Raspberry Pi microprocessor and independently assembled mechanical structure as the platform.
– Customized a binarization based eye-tracking algorithm in Python to move the phone and take the pictures.
– Developed an Android App to establish the communication between the microprocessor and the phone.

PIC32 Based Multi-Functional Electronic Piano 05/2014 – 08/2014
– Achieved traditional electrical piano features based on two PIC32 boards through PWM interrupt.
– Integrated an FFT based LED spectrum display system with a servo and LED lights.
– Communicated with the PC and saved the music score on PC via UART on Matlab.

2D Quad-Mesh Generation for Ship Assembly 12/2012 – 05/2013
– Proposed an innovative hybrid quad-mesh generation algorithm for ship blocks with constraints.
– Converted a block with 1028 triangle meshes into quadrilateral meshes within 1 second.

White-Box SMS4 Algorithm Investigation & Realization 03/2012 – 09/2012
– Modified the traditional SMS4 algorithm with a new obfuscation method to fit the white-box environment.
– Encrypted a 128-bit long sequence within 10 milliseconds under the white-box environment.

AWARDS & CERTIFICATES

– First place in Microsoft College Code Competition in UCSD 10/2015
– Outstanding Graduate in Shanghai (top 5% in SJTU) 04/2015
– National Scholarship (top 2% in SJTU) 10/2014
– Level N1 of the Japanese Language Proficiency Test (highest level) 12/2012
– First Prize in National Olympiad in Informatics of Province (top 1‰ in province) 11/2010

SKILLS

Languages: C/C++, JAVA, Python, SQL, LaTeX, HTML/CSS, JavaScript, MIPS Assembly, Verilog HDL
Softwares: Visual Studio, Xcode, NetBeans, Eclipse, Matlab, Xilinx ISE
Operating Systems: Windows, Linux (Ubuntu), Mac OS X

* Find more about my projects on http://www.wang-qian.com/project.html