Bo Zhang

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OBJECTIVE

Seeking a full-time position of Software Engineer

EDUCATION

University of Michigan, Ann Arbor - MI, USA
Master in **Electrical Engineering** - **GPA: 3.8/4.0**   Sep. 2014 - Dec. 2015
Relevant courses: Operating System, Embedded System, Computer Vision, Computer Architecture, Microachitecture

Shanghai Jiao Tong University, - Shanghai, China
Bachelor in **Electrical Engineering** - **GPA: 3.76/4.0** , **Valedictorian**   2010 - 2014
Relevant courses: Programming and Intro to Data Structures, Computer Organization, Design of Microprocessor Based Systems

WORK EXPERIENCE

Oracle, Austin, TX   April 2016 - Now
Java Performance Analysis Engineer
- Use Java microbenchmarks to evaluate performance on both SPARC and x86 machines
- Investigate and solve performance issues on SPARC HW and SW
- Write direct assembly test verifying performance features of new SPARC processor
- Verify new SPARC core performance boost on FPGA platform
- Work on improving Java performance on Linux-SPARC platform with SW fix
- Tune default Hotspot JVM flag setting for T8 SPARC

National Instruments, Austin, TX   Summer 2015
Hardware Engineer Intern
- Created an interface between Digital Input Module and FPGA Chassis using VHDL
- Developed test benches and scripts verifying interface design on both IP level and SoC level
- Developed plug-in VIs in Labview and tested on real hardware of Digital Input Module

COURSE PROJECT

Multi-threaded Secure Network File Server   Fall 2015
- Implemented a network file server with socket programming, client-server system, hierarchical file system and security protocols
- Enabled clients using file server to interact with it via encrypted network messages
- Used c++11 thread lock to support safety and concurrency

External Pager   Fall 2015
- Implemented an external pager to allocate memory for applications in C++
- Implemented fault handler to deal with read/write or page fault, designed clock algorithm to evict a virtual page from physical memory when page fault happens

Face Detection Based on Adaboost Algorithm in Matlab   Fall 2014
- Trained a single Adaboost classifier with 50 weak-learners on provided data
- Selected and visualized 50 Haar-like features out of 50,000
- Achieved more than 99% accuracy of face detection for trained data and 95% for untrained data

SKILLS

Languages: Java, Scala,C/C++, Matlab, bash script, perl, assembly
Applications: Oracle cloud, AWS, Visual studio, Synopsys VCS, Xilinx, Simulink, Labview