Fada Chen

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OBJECTIVE

Seeking a full-time job in software development engineering (SDE) position

SKILLS

C/C++, Java, Android SDK, Visual Studio, Eclipse, Embedded Software, Unix-general, Assembly, Tcl

PROFESSIONAL EXPERIENCE

Broadcom Corporation, San Diego, CA Jun.2013 – Dec. 2013

Software Engineering Intern on Android Application Development in Production Tool Team

- Migrated an Android application to two Broadcom platforms and solved driver-level problems.
- Co-worked with a Broadcom team in Sunnyvale and developed an Android application to provide a solid serial port communication between phone and micro-controller, as well as designed a user-friendly GUI for marketing demonstration purpose.
- Developed an Android application to display and tune driver-level parameters of Power Management Unit and plotted charging current and voltage curves along with time.

EDUCATION

University of California San Diego, **Jacobs School of Engineering, San Diego, CA**

M.S. Computer Engineering GPA: 3.78 Sep.2012 –Mar.2014 (expected)

Zhejiang University, Hangzhou, China

B.S. Electrical Engineering GPA: 3.89 Sep.2008 - Jun.2012

COURSE PROJECTS

University of California San Diego, Jacobs School of Engineering, Course projects

Data Structure Course Projects in C++ Mar. - Jun.2013

- Designed and implemented file compression/decompression tools using Huffman Encoding.
- Implemented back-end of the Boggle Player game by building a lexicon data structure as well as implementing an efficient search algorithm. Got extra credit for outstanding performance.

Android/Linux Power Management on a smartphone device in C Jan. - Mar.2013

- Extracted CPU and GPU information, e.g. , frequency, utilization, from logs using Perl script
- Decomposed workloads as CPU-intensive and Memory-intensive by run-time performance counters.
- Designed our own DVFS governor as a kernel module, extended battery life by 23% comparing with default governor.

Projects assigned for Principle of Operating System in C Jan. - Feb.2013

- Programmed a context switching function as well as the following scheduling policies: FIFO, LIFO, RoundRobin and Proportional for the Umix (Unix-based user-mode OS) kernel
- Built synchronization for a road sharing simulation by utilizing semaphores and shared memory
- Built user-level thread package by introducing dummy array

North Carolina State University, Summer Research Program Jul. – Oct.2011

Developed a Demo of Smart Charger for PEV/PHEV Battery in a Smart Grid Testbed

- Designed LabVIEW-based GUIs with following features: remotely controlled and monitored real-time battery information; multiple-user-oriented; flexible communication, i.e., TCP/IP, Wi-Fi

RELEVANT COURSES

Advanced Data Structure, Advanced Algorithms, Principles of Operating System, Algorithms, Embedded System Software, Computer Architecture, VLSI Integrated Circuits and System Design