Gilbert A. Fu

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Work Experience

Qualcomm Technologies, Inc. July 2013 – Present

Software Engineer

- Developed and designed key features and optimizations within Layer 3 of LTE for mobility between LTE and other radio technologies that improve overall wireless connectivity and service for the end user.
- Designed and implemented protocols for concurrent radio technology software stacks for LTE. These major features allow for parallel 4G (data centric) and 3G/2G (voice centric) communication on a single device.
- Integrated each change with developers across software stacks to seamlessly work with existing and future designs.
- Analyzed, triaged, and fixed reported bugs from customers, test teams, and other dev teams that pertain to LTE.
- Tested and coordinated the debug efforts for the initial bring-up phase for large features across many dev teams.

Qualcomm Technologies, Inc. June 2012 – Sept 2012

Software Intern

- Developed a post processing tool in Python for automatic generation of message sequence charts from log files.
- Created a user friendly GUI tool in Java for creating and editing 32 bit hexadecimal feature bitmask binary files.
- Developed a parsing and graphing tool in Python for post processing log analysis of detected signal strength.

Intel Corporation June 2011 – Sept 2011

Graduate Technical Intern

- Integrated, completed, and documented an incomplete memory power characterization tool written in TCL and Perl into a top-to-bottom usage flow that improves measurement accuracy by 10%.
- Fixed 10+ major bugs, reduced the run time, and eliminated the API version dependency of the tool.

Photonics Laboratory, UCLA

Undergraduate Researcher for Prof. Bahram Jalali June 2009 – June 2011

- Created an application using LabView to automate the movement of multiple linear translation stages.
- Designed and built several optical systems using a Ti:Sapphire laser for the development of the cancer detection project in collaboration with Olympus.
- Analyzed and processed data using Matlab's data fit analysis tools in both frequency spectrum and time domain.

Education

Stanford University Graduated March of 2013

M.S. Electrical Engineering, focus in Network Systems GPA: 3.5

University of California, Los Angeles Graduated June of 2011

B.S. Electrical Engineering (Dean's Honor List and Cum Laude) GPA: 3.7

Additional Projects and Recognitions

- **Patent Pending**: Murugan, M.; Pant, N.; Fu, G.; Amerga, D.; et al. 2014. Addressing Radio Link Failures in Wireless Communication Systems. U.S. Patent Application 14/503,886, filed October 1, 2014. Patent Pending.
- **Web Application (2014)**: Designing and creating a networking site for young professionals to connect, meet, seek advice, and arrange/review talks from accomplished speakers in New York City. <www.brunchwork.com>
- **Dining Scene Recognition Application (2013)**: Created a machine learning application that combined computer vision techniques to be able to recognize dining scene images from a list of random images.
- **Compiler (2012)**: Built a fully working compiler for a prototype object oriented language using Java/C++
- **Database Indexing (2011)**: Implemented a B+ tree index that can handle LOAD commands and SELECT queries from a database to reduce the run time of the search query.

Languages/Skills

Java • C/C++ • Matlab • Ajax • Ruby on Rails • SQL • MapReduce • Python • Perl • Tcl