Boa-Lin Lai

blai7@gatech.edu | 424-272-5201 | Atlanta, GA | blai.info | F1 Visa

Education

Master of Science in Computer Engineering	Aug 2017 - Dec 2018

Concentration: Computer Systems and Software, Telecommunication
Georgia Institute of Technology. GPA: 3.57/4.0
(Operating Systems, Networking, Distributed Systems, Cloud Computing, Security, Interconnection Networks)

Bachelor of Science in Computer Engineering	
Georgia Institute of Technology. GPA: 3.68/4.0 (Graduated with Highest Honors)	Aug 2015 - May 2017
Iowa State University. GPA: 3.94/4.0 (Transferred out in 2015)	Jan 2013 - May 2015

Professional Experience

Juniper Networks, Inc. *- Sunnyvale, California*	May 2018 - Aug 2018

Software Engineering Internship (Security Department, SRX Security Platform)
- Resolved kernel (FreeBSD/Linux) related issues on Junos Network Operating System (Junos OS) platform.
- Designed and Implemented internal automation tools for release management.

MediaTek, Inc. *- HsinChu, Taiwan*	June 2017 - Aug 2017

Software Engineering Internship (Connectivity Technology Development, Software Engineering Div 2)
- Refactored Wi-Fi Alliance's device certification tool for MediaTek access point device.
- Reduced the device configuration time from 127 to 10 seconds on test plan VHT 4.2.5 with the new tool.
- Refined its compile structure to make the user program compatible with MediaTek SDK framework.

Rockwell Collins, Inc *- Cedar Rapids, Iowa*	Jan 2015 - Aug 2015

Software Engineering Co-op (Government System Department, Engine-indicating and crew-alerting system)
- Refactored company's file comparison tool (Python), saving over 50% of execution time.
- Integrated xml-junit results to internal server using PHP and Javascript for tracking development status.
- Automated verification scripts with PowerShell and Atlassian Bamboo (continuous integration and delivery tool).
- Deployed a website for AW609 and C295 aircrafts release management.

Projects

DPDK Sequencer (C) *- Advanced Operating Systems Special Project, Georgia Tech*	Spring 2018

- Implemented sender, receiver, forwarder, and dpdk sequencer user space programs on x86 Linux Machines.
- Encoded timestamps into ethernet frames (64 bytes) for measuring the traveling time between client and server.
- Explored raw socket programming and dpdk l2fwd framework and evaluated their performance.

Smart Glass (Python, C++) *- Senior Design Project, Georgia Tech*	Fall 2016 - Spring 2017

- Designed a Smart Mirror IoT device in hardware and software integration part in a five-person team.
- Integrated sensors between raspberry pi 3 and mbed (32-bit ARM Cortex-M) with RTOS and multithread.
- Smart Mirror can display news, email, and the weather associated with user configuration.

TA Experience

ECE GTA for Computer Communication Networks *- ECE 6607, Georgia Tech*	Aug 2018 - Dec 2018
CS UTA for Java Programming *- CS 207, Iowa State University*	Aug 2014 - Dec 2014

Skills

Programming: C/C++, Python, MATLAB
Tools: Latex, AWS, Google Cloud, Wireshark, IDA Pro
Languages: Mandarin (Native Speaker), English (Fluent), Japanese (Beginner)

Awards

Capture The Flag - 1st place among 20+ teams *- Security CTF at Juniper Networks*	2018 Summer
Aero Hack - Staff Pick from Devpost *- hackathon at Georgia Tech*	2016 Spring
HackISU - People's Choice *- hackathon at Iowa State University*	2014 Spring