

Boa-Lin Lai

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Education

Master of Science in Computer Engineering

Aug 2017 - Dec 2018

Concentration: Computer Systems and Software, Telecommunication

Georgia Institute of Technology. GPA: 4.0/4.0

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

Experience

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.
- Set up virtual machines for testing to reduce the compiling overhead on embedded device platform.
- 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.

Computer Science Department - Iowa State University

Aug 2014 - Dec 2014

Undergraduate Teaching Assistant (Java Programming)

- Lead 21 students in weekly recitation, monitored their learning progress, and shared coding techniques.
- Clarified programming concepts in one-on-one appointments.

Projects

Bitcoin Price Analysis and Prediction (Python) - Cloud Computing Design Project, Georgia Tech

Fall 2017

- Designed a bitcoin price model based on the sentiment scores from Reddit, News, Twitter's.
- Implemented a distributed realtime computation system with Storm server, Kafka Queue, and DynamoDB.
- Deployed a website with Dash plotly API to represent analysis data with deployment automation script.

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.

Robotic Movement Tracking Software (Python, C++) - Embedded System Design, Georgia Tech

Fall 2016

- Developed a terminal based python UI to remotely control the robot and plot the precise location of it in real time.
- Designed an algorithm based on rotation sensors for tracking the travel paths in real time.

Skills

Programming: C/C++, Python, MATLAB

Tools: Latex, AWS, Google Cloud, Wireshark, IDA Pro

Languages: Mandarin (Native Speaker), English (Fluent), Japanese (Beginner)

Awards

Aero Hack - Staff Pick from Devpost - hackathon at Georgia Tech

2016 Spring

HackISU - People's Choice - hackathon at Iowa State University

2014 Spring