Jason Lin

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EXPERIENCE

jNet ThingsX

San Jose — *Software Engineer*

Aug 2015 - Present

- Developed smart card applets in JavaCard and native implementation; mainly focus on cryptography authentication scheme, key management and applet security.
- Wrote tests in C# and python using existing framework and environment to ensure new feature are functional and bugs are not recurring.
- Managed by agile development methodology, and familiar with the concept of scrum and usage of JIRA board to enhance productivity of the development cycles.

Fairchild Semiconductor International Inc

Taipei, Taiwan — Summer Internship

May 2013 - Aug 2013

- Researched and presented a summary of advantages and disadvantages of major DC motors in the market to the engineering and the marketing department.
- Utilized FCM8531, a 8051based embedded motor controller, to construct an automatic detection system that detects startup failure of prototype motor.
- Automated a stress-testing system in C language that iteratively restart prototype motor to analyze controller failure and display a report on screen.

EDUCATION

Purdue University, West Lafayette IN

Bachelor of Science in Computer Engineering

Aug 2011 - May 2015

SKILLS

Most comfortable with: C, C++, C#, Java, Python

Experienced with: Verilog, HTML, MySQL, PHP, CSS

LANGUAGES

Fluent in English and Mandarin

PROJECTS

Purdue Vertically Integrated Projects

Android Application - MyLocator

- Led underclassmen to develop an Android mobile phone application that utilize Google Map API to receive real-time broadcasting messages from other clients.
- Built a TCP/IP socket server in Python to handle requests from clients and returns data from MySQL database based on the request received.
- Improved and debugged Android-side code to minimize server communication latency by standardizing request protocol.
- Designed proprietary communication header to enhance server command communication efficiency.

Purdue EPICS

Android Application - TADA (Technology Assisted Dietary Assessment)

- Led and trained underclassmen across different majors to complete an Android mobile phone application.
- Constructed a dynamic user interface based on the analysis returned from the server, the application page requests the file from the server, extracts the data and displays the interface based on the data.
- Improved and debugged Android-side code to minimize server communication latency by standardizing request protocol.
- Implemented functionalities that allows the users to modify the result from server, the modification returns to the server for future usage.

ASIC Design

Verilog - USB Encryptor

- Collaborated with team members to accomplish an ASIC project that simulates and synthesizes using Verilog with appropriate test cases.
- Designed ASIC modules that encrypts/decrypts the data using triple-DES standard, wrote tripleDES script in Python to verify the result from each step.
- Developed testbenches in SystemVerilog to verify functionality of top-level and individual blocks, and ensured the design covered the edge cases.