US Citizen

Randy Deng

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Education

Georgia Institute of Technology, Atlanta GA *Aug. 2015 - Present*
BS in Computer Engineering, GPA: 3.85/4.00 *Expected Graduation: Fall 2018*
- Current Coursework: Dependable Distributed Systems, Reverse Engineering Malware, Wireless Networks
- Relevant Coursework: Data Structures & Algorithms, Cloud Computing, Computer Networking

Technical Skills

Programming Languages: Java, Python, C/C++, JavaScript, MIPS, MATLAB, LabView, HTML/CSS
Tools/Libraries: AWS, Flask, Boto3, Arduino/mbed, Bootstrap, pthreads, Beautiful Soup, MPI, jQuery, Latex
Foreign Languages: Mandarin Chinese

Work Experience

Software Engineer Assistant at GTRI CIPHER *Jan. 2018 - Present*
- Created usage statistics for Apiary, an automated framework for malware analysis and threat intelligence

Software Engineer Intern at EuroAvionics *May 2017 - Aug. 2017*
- Developed software to retrieve data from remote server using REST and display map overlay on aircraft vehicle
- Expanded functionality of current system by providing near real-time data to pilots and configuration options to network administrators

Software Test Engineer Intern at ASML *May 2016 - Aug. 2016*
- Developed LabView software to interface with National Instrument modules to increase efficiency of data acquisition in clean room environments and verify integrity of moving frame tester
- Upgraded computer hardware/software and identified issues with sub micron motor controller to improve reliability of company systems

Projects

Quotebook AWS Web Application *Fall 2017*
- Web application that allows users to add, edit, and view quotes by other users (http://18.216.218.79)
- Application uses DynamoDB to store data, EC2 to run a Python Flask server, Boto3 to interact with AWS in Python, Bootstrap templates for front-end development, and Nginx and uWSGI for deployment

Struct (HackGT) *Fall 2017*
- Developed code visualizer in Python to display GitHub code files in a graph structure where each node was a file and each edge represented a link between files using similar methods or classes
- Performed depth-first-search on Github Repositories and web scraping to determine file types
- Parsed through code files using Regex to find key words that would link files together

Parallel Programming *Spring 2017*
- Implemented code in C++ to efficiently generate Mandelbrot set using pthreads, OpenGL
- Programmed 2D DFT using Danielson-Lanczos Algorithm and pthreads to reduce computing time

5 Stage Pipelined Microarchitecture Simulator *Spring 2017*
- Implemented pipelined microarchitecture simulator (LC-3b ISA) in C, reducing instruction processing time

Leadership

The Hive: ECE Makerspace Assistant Director of Communications *Sept. 2017 - Present*
- Hosted TI workshop events, soldering workshops, and social events for students
- Advertised events using flyers, email, and Facebook

Eta Kappa Nu (ECE Honor Society) VP, Corporate Sponsorship, Webmaster *Aug. 2016 - Present*
- Hosted information sessions for companies and social events to encourage networking among ECE students
- Organized community service project and initiation banquet at GT Hotel for new initiates

Georgia Tech Astronomy Club Vice President, Treasurer *Aug. 2016 - Present*
- Organized and participated in public nights and stargazing trips to increase public interest in Astronomy