Jian Qiu (Leo) Huang

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EDUCATION & HONORS

Binghamton University, State University of New York **Binghamton, NY**
The Thomas J. Watson School of Engineering *Expected May 2016*
Bachelor of Science in Computer Science and Minor in Mathematics
3.74 / 4.00 Major GPA | 3.45 / 4.00 Cumulative GPA
Dean's List: Spring 2014, Fall 2014

SKILLS

Programming Languages: C++, C, Java, HTML/CSS, Objective-C
Software and OS: VIM, Eclipse, Linux, Xcode
Coursework: Operating Systems, Computer Systems I: Machine Organization and Architecture, Object-Oriented Programming,
　　　　　　Data Structures & Algorithms, Computer Systems II: Architecture and Programming
Foreign Languages: Fluent in Mandarin

PROJECT EXPERIENCES

Multi-Process Synchronization – Bounded-Buffer Problem **Binghamton, NY**
Developer *December, 2015*
- Developed an optimized program that uses multi-threading mechanism to solve synchronization, dead-lock, and starvation issues
- Utilized Pthreads locking mechanism such as mutex lock, condition variable, and semaphore to acquire desired thread interaction

Labyrinth Solver Simulator – Shortest Path Algorithm **Binghamton, NY**
Co-developer *November, 2014*
- Collaborated with a partner to analyze, design, and implement a maze-solving algorithm with graphical representation in C++
- Evaluated the runtime efficiency of various algorithms, including the Wall-follower, Pledge, and Dead-end filling approaches, to determine the optimal implementation. Programmed functionalities such as maze scanning, path computation, and demonstrate the path to the user in a step-by-step manner
- Completed the project with an outstanding average time complexity of $O(n)$ less than two weeks, presented results in a room with more than 50 students and faculties, and awarded to be the top 5 most interesting projects

MIME (Multi-Purpose Internet Mail Extension) Content-Transfer-Encoding **Binghamton, NY**
SMTP (Simple Mail Transfer Protocol) - Base64
Team leader & Co-developer *December, 2013*
- Completed an encoding scheme that ensures data integrity for binary data that need to be stored and transferred over media
- Coordinated a team of three to design and implement a binary-to-text-encoding scheme that represents binary data in an ASCII string format by translating it into a radix-64 representation in C
- Investigated performance efficiency, accuracy, and compatibility across multiple platforms.

RELEVANT EXPERIENCE

Binghamton University Upsilon Phi Epsilon (UPE) **Binghamton, NY**
Student tutor *September, 2014 – Present*
- Provide learning assistance to students through one-to-one or small group meetings with a professional manner
- Encourage a positive student/teacher relationship; practice and promote accurate, honest, and truthful learning environment
- Improve students' academic standing by providing clear explanation of computer science related topics

Association of Computing Machinery (ACM) **Binghamton, NY**
Active member *September, 2013 – Present*
- Participate in weekly meetings that focus on providing computer science related knowledge
- Engaged in Association of Computing Machinery's annual programming competition to demonstrate individual problem solving skills with strong programming and algorithmic background. Named to be the top 10 over more than 100 contestants

WORK EXPERIENCES

Fortune Cookies **Staten Island, NY**
Assistance Manager *May - August, 2014*
- Maintained a welcoming environment by assisting, addressing, and resolving customer inquiries and needs.
- Facilitated more than 300 transactions per day, the safekeeping of more than 5,000 dollars, and the flow of overall operations
- Established constructive and effective relationship with staff, and hosted weekly meetings to investigate future planning

Another Computer Store **Brooklyn, NY**
Repair technician *May - August, 2013*
- Consulted with customers to examine hardware or software problem, explained the problem in a clear and understandable way, and provided feasible options for repair or replacement
- Demonstrated the ability to diagnose, repair, and test hardware issues in a timely and efficient manner. Refurbished more than 50 smartphones and 20 computers in the course of this job