

Jian Qiu (Leo) Huang

544 57th St, Brooklyn NY 11220 · jhuang86@binghamton.edu · (347) 554-3808

EDUCATION & HONORS

Binghamton University, State University of New York

The Thomas J. Watson School of Engineering

Bachelor of Science in Computer Science, Minor in Mathematics

Major GPA 3.8 / 4.00 | Cumulative GPA 3.56 / 4.00

Dean's List: Spring 2014, Fall 2014, Spring 2015

Binghamton, NY

Expected May 2016

SKILLS

Programming Languages: C++, C, Java, HTML/CSS, Objective-C, PHP

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, Computer Systems III, Operating Systems Concepts, Automata Theory and Formal Languages

Foreign Languages: Native in Mandarin, and Fluent in English

PROJECT EXPERIENCES

iNeed

Binghamton, NY

Lead iOS developer

May, 2015 – Present

- Lead team of three from different academic backgrounds in finding, designing, and implementing iOS mobile application – iNeed
- Demonstrate leadership skill by arrange biweekly group meetings, report project status, and assign individual tasks
- Communicate with different service providers such as message service and database service to obtain proper solutions

Multi-Process Synchronization – Bounded-Buffer Problem

Binghamton, NY

Developer

December, 2015

- Developed an optimized program that uses multi-threading mechanisms to solve synchronization, dead-lock, and starvation issues
- Utilized Pthreads mechanisms such as mutex lock, condition variable, and semaphore to acquire the desired thread interaction

Labyrinth Solver Simulator – Shortest Path Problem

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 visual demonstration of the construction of the path
- Completed the project in less than two weeks with an outstanding average time complexity, presented results to an audience with more than 50 students and faculty members, and awarded as 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

- 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
- Completed an encoding scheme that ensures data integrity for binary data that need to be stored and transferred over media
- Investigated performance efficiency, accuracy, and compatibility across multiple platforms

LEADERSHIP EXPERIENCE

Academic Advising of the Thomas J. Watson School of Engineering at Binghamton University

Binghamton, NY

Academic advisor

Summer, 2015

- Participated in orientation introductory presentations for more than 100 incoming new students with other Watson advisors
- Refer students to appropriate campus resources, and promoted computer science organizations such as ACM, Hack BU, and UPE
- Provided educational guidance and assistance by planning schedules, recommending courses, and determining appropriate academic solution for different students

Trio Programs – Upward Bound

Binghamton, NY

Mentor/tutor

February, 2015 – Present

- Provide learning assistance to local high school students through one-to-one or small group meetings with a professional manner
- Create opportunities for students to demonstrate their competencies by encouraging them to present their ideas in group meetings
- Encourage a positive student/teacher relationship; practice and promote accurate, honest, and truthful learning environment
- Improve students' overall academic standing by more than 30%, and greatly increase local high school graduation rate

Binghamton University Upsilon Pi Epsilon

Binghamton, NY

Webmaster

January, 2015 – Present

- Participate in weekly E-Board member meetings to ensure the health and effectiveness of the organization
- Develop and implement programs and activities that aim to assist fellow computer science students
- Maintain Upsilon Pi Epsilon's website, including enhance user interface usability and update website's content and design