

Wesley Cheung

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EDUCATION:

Georgia Institute of Technology, Atlanta, GA

Aug 2015 – (Expected) May 2019

- Candidate for Bachelor of Science in Computer Science
- GPA: 3.84
 - Faculty Honors: Fall 2015
 - Dean's List: Spring 2016
- Threads: Information Internetworks, Theory

EXPERIENCE:

Shapley Value Calculator, Atlanta Marking Sciences –

May 2015 – July 2016

Designed and implemented a multithreaded application to quickly calculate the Shapley value of given data

- Developed a program in Nvidia's CUDA that takes in a CSV file and computes the corresponding Shapley values
- Implemented Doolittle's LU decomposition to solve the 2^n linear equations needed to solve for Shapley
- Took full advantage of CUDA's multi-threaded architecture
- Acquired much needed client-developer skills and flexibility with coding

ACTIVITIES:

Georgia Tech GreyHats –

Aug 2015 – Present

Focuses around cyber security and the exploitation of modern computing. Includes hosting weekly talks from company specialists and competing in various security "Capture The Flag" (CTF) competitions as well as preparing for them. Competitions consist of cryptography, steganography, binary analysis, and reverse engineering challenges in which a flag must be retrieved and submitted.

Georgia Tech Programming Team –

Aug 2016 – Present

Prepares for competing in the ACM Programming Competition. Holds weekly practices by working through several of the past challenges. Problems are comprised of scenarios where contestants must discern the underlying essential problem and develop algorithms for its solution i.e. optimize subway schedules, analyze logic circuits, etc.

PROJECTS:

AudioShuffler – (Java, JavaFX, JIntelliType)

My solution to play songs without having to load a bulky application such as iTunes

- Can play any local audio file supported by JavaFX in a pseudo-random fashion
- Controlled either by GUI or hotkeys provided through JIntelliType
- Implements volume control, play/previous/pause functions, and has system tray access

Kid's Day Registration Page – (HTML, JavaScript, PHP, MySQL)

A PHP/MySQL backed registration form to help organize the church's registration event

- Incorporated an additional admin page to view, add, and delete entries as needed
- Responsive form that adds new entries as needed with the help of JavaScript DOM.

SKILLS:

Programming:

- Language: Java, C, C++, CUDA
- Web Development: HTML, CSS, JavaScript, PHP
- Frameworks: Bootstrap, jQuery, JavaFX
- Database: MySQL, SQLite
- ISA: LC-3, LC-2200

Software: Git, Eclipse IDE

Hobbies: Swimming, running, piano, guitar, drums

LEADERSHIP/VOLUNTEER:

FCBCA Children Ministry Leader –

Aug 2015 – Present

Lead discussions with youth and assist with lessons and activities

Georgia Tech Gamefest Volunteer –

April 2016

Helped set up and run the registration at Gamefest, the biggest collegiate LAN in the South