

Maxx Amand Boehme

Education

The University of Texas at Austin	Bachelor of Science in Computer Sciences, May 2014	83 hours	GPA: 3.606
Southwest Texas Junior College	Summers 2010, 2011, 2012	24 hours	GPA: 4.0

Relative Courses Taken or Currently Taking:

Computer Networks	Cryptography	Software Engineering
Intro to Computer Security	Computer Graphics	Engineering Physics I & II
Comp. Organization & Arch	Principles of Computer Systems	First-Year German I & II

Honors & Activities

- University Honors – The University of Texas at Austin
 - Association for Computing Machinery (ACM)
 - College of Natural Sciences Peer Leader Academy
- Spring 2011 – Present
Fall 2012 – Spring 2013
Fall 2013-Present

Technical Skills (listed from most proficient to least)

- Languages/APIs:** Java, C++, OpenGL, HTML/CSS, PHP, MySQL, C#, Python, Perl
- IDEs:** Eclipse, Visual Studio 2010/2012
- Operating Systems:** Windows, Linux, Mac OSX
- Applications:** Microsoft Office (Word, Excel, PowerPoint), QuickBooks

Work Experience

- The University of Texas at Austin** – Computer Science Undergraduate TA/Proctor **August 2013 - Present**
- Hold office hours tutoring students in CS 314 – Data Structures course material, homework assignments and projects
 - Make testing programs and scripts for grading and maintain record keeping , also serve as teacher – student liaison

Projects

www.github.com/maxxboehme

- Client/Server Messaging System** – Java
 - Created a Multi-Threaded Server that creates user accounts and organizes sent messages over sockets
 - Client with a GUI that allows the user to sign in and view incoming and sent messages.
- User Photo Gallery** – HTML/CSS, PHP, MySQL
 - Website that allows users to register/login , upload photos and make photo galleries of their pictures
 - Users are then allowed to search for friends and view their photos.
- Encryption & Decryption** – Java and C++
 - Implemented the RSA method of using a public and private key, and the symmetric key AES-128 method
 - Implemented fast modular exponentiation for RSA, and mathematical operations in Rijndael's Galois field
- Compression & Decompression** – Java
 - Evaluated the lower bound of lossless compression of files
 - Implemented Lempel-Ziv compression/decompression and used a “trie” data structure approach to construct the dictionary
- Motion Capture** – C++/OpenGL
 - Read .bvh files and rendered the figures’ joints and limbs using rectangles and spheres
 - Implemented the ability to slow down and speed up and stop the frame rate of the animation
- Pipelined x86 Processor Optimization** – C/x86 Assembly
 - Transformed functions from C into x86 assembly and test them against a simulator
 - Optimized a x86 benchmark program and a pipelined processor design
 - Used GNU debugger to trace through a x86 assembly language program and examine memory and registers
- Operating System/Memory Management** – C/C++
 - Manage physical memory with pages, which are free and which are allocated, and how many processes are sharing each page.
 - Manage virtual memory with its mapping with physical memory with page tables
- 2D Games (Billiards, Rodent’s Revenge “Remake”, Castle Defense, ...)** – Java or C++/OpenGL
 - Implemented collision detection, A* path finding for computer AI, and threading for responsive GUI

Additional Interests

- Enjoy playing the drums, skiing, wakeboarding, and weight training.
- Enjoy making 2D games usually in Java or C++ and sharing them with friends