TIANYU CHENG

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EDUCATION

The University of Texas at Austin   2013 Spring - Present
B.S. in Computer Science (Turing Scholars Program)   GPA: 3.83
B.S. in Mathematics   GPA: 4.0
Overall GPA: 3.85

PROJECTS

Web-based Linear Algebra Solver   February 2014
· Implemented with Python with Django
· A web-based program to solve linear algebra problems and show the procedure

Desktop-based Task Reminder   January 2014
· Implemented with C++ and Qt for GUI
· Integrated with sqlite3 for task managing

File Compression   August 2013
· Implemented with Java with Swing for GUI
· Implemented with PriorityQueue and Huffman coding

OpenGL Skeletal Animation   July 2013
· Implemented with C++ and OpenGL
· Implemented a shader-based 3D model loading library skeletal animation

Online Website Designer   June 2013
· Implemented with HTML, Javascript, with Struts
· Implemented a user-friendly website to create customizable websites
· Implemented the widget drag-and-drop feature with AJAX system for user friendliness

Guitar Hero & Visualizer   April 2013
· Implemented with Java with StdAudio library based on Karplus-Strong synthesis
· Implemented the guitar string percussion visualizer with double buffering

Web-based Law Case Manager   October 2012
· Implemented with Python, Karrigell and MySQL for web-based law case management
· Support law cases registration, modification, deletion and printable document generation

TECHNICAL SKILLS

Programming Languages	Proficiency in Java, C/C++
	Exposure to Python, Ruby
Web Development	Experience in HTML/CSS, Javascript (jQuery), XML/JSON
	Exposure to HTML5/CSS3, Struts
	Comfortable with UNIX/Linux environment