

TIANYU CHENG

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EDUCATION

The University of Texas at Austin	2016, Summer
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
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- Implemented with Python with Django
- Solve linear algebra problems and show the procedure with web browser
- Target at teaching students the way to solve linear algebra problems

Desktop-based Task Reminder	January 2014
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- Implemented with C++ and Qt for GUI
- Integrated with sqlite3 for task managing
- Provide event alarming and desktop notification

File Compression	August 2013
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- Implemented with Java with Swing for GUI
- Implemented with PriorityQueue and Huffman coding
- Use various length encoding scheme and file dependent

OpenGL Skeletal Animation	July 2013
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- Implemented with C++ and OpenGL
- Implemented a shader-based 3D model loading library skeletal animation
- Provide a basic setup for game engine

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

Web-based Law Case Manager	October 2012
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- 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