

Xiaochen (Jacky) Tian

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<https://github.com/xjtian>

www.xjtian.com

Experience

- **Bloomberg LP** **New York, NY**
Software Development Intern *June 2014 - Aug 2014*
 - Full stack development and design of two new internal Bloomberg Terminal functions (MBRO, MRPO) used by modelers on the Mortgages team to perform complex queries on the status of mortgage-backed security deals.
 - **Johns Hopkins University Applied Physics Laboratory** **Laurel, MD**
Technical Intern *May 2013 - Aug. 2013*
 - Front-end development on clinical web applications for physicians at the Johns Hopkins Hospital SICU.
 - Full-stack development on a new system architecture to support a data-driven approach to physical therapy inside the SICU.
 - **Johns Hopkins University Applied Physics Laboratory** **Laurel, MD**
Technical Intern *Jun. 2012 - Jan. 2013*
 - Developed a suite of modular software tools to facilitate operation of the Modular Prosthetic Limb (MPL).
 - Replaced a MATLAB command-line interface used to operate the MPL with a multithreaded graphical application in C# which significantly improved productivity for engineers testing the MPL.
 - * Demonstrated by project managers at the 2012 Neural Interfaces Conference in Salt Lake City, UT.
 - Developed a 3D Scrabble game in the Unity3D game engine as a training and rehabilitation tool for patients with neural implants who were using the MPL.
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Core Technical Skills

Languages by familiarity: Python, Javascript, Java, C++, C#, HTML/CSS, L^AT_EX, C, MATLAB

Software libraries and frameworks: Django, jQuery/jQuery UI, Bootstrap, numpy, d3.js

Tools: Git, Vagrant, MySQL, Apache, Photoshop

Education

- **University of Maryland, College Park** **College Park, MD**
B.S. in Computer Science *Aug. 2012 - May 2015 (expected)*
 - GPA: 3.82/4.0
 - Banneker/Key Scholarship: Full 4-year scholarship, one of 143 total recipients in 2012
 - Design Cultures and Creativity (DCC), UMD Computer Science Honors programs.
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Recent Projects

- **TerpBooks (terpbooks.com)** Spring 2014
 - Online textbook marketplace for University of Maryland students developed as a capstone project for the Design, Cultures & Creativity Honors Program.
- **Primannum Honor Society UMD Website (primannumumd.org)** January 2014
 - Full-stack development on a new website for the Primannum Honor Society at the University of Maryland.
 - Custom Django backend is used by the organization's officers to upload monthly newsletters, annual scrapbooks, and photo galleries of events.
- **lcsim** Spring – Fall 2013
 - Python library for building and simulating large boolean circuits, developed to support an undergraduate research project.
 - Used the library to build the SHA-1 hash algorithm as a circuit to analyze its susceptibility to birthday attacks.