

Shan Liu

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PROFILE:

- Graduated from **Stony Brook University** in December 2015 with **double major** in **Computer Science** and **Applied Math and Statistics** honored **Cum laude**
- Undergraduate Student Champion in Microsoft College Code Competition (msft3c) in September 2015

EXPERIENCE:

Associate Software Engineer, Scholastic Inc, NYC *May 2016 – Present*

- In charge of messaging feature for TrackIt project, complete it from end-to-end
- Performance enhancement by refactor the code base, **shorten 3X responding time**
- Project Migration to **AWS Cloud**, refactor PHP code to JavaScript
- Implement sorting, filtering and grouping features Angular.js
- Create Databases, Store Procedures and Functions in **MySQL** database
- Agile development & Scrum practice; TDD and ATDD in Angular.js and Maven

Web Developer Internship, BitTiger LLC *March 2016 – May 2016*

- Collect customer feedback, design product & features, and implement with Meteor.js
- Build blog searching bar based on **full-text-search API** and categorize blog with database aggregate queries

PROJECTS:

Movie Search Website, Stony Brook, NY *March 2015 - July 2015*

- Implemented OOAD and UML and modeling of diagrams, also designed SQL schema
- Used MVC and developed the backend control logic in Java, frontend in JavaScript
- Used JPA persistence layer and JDBC to connect remote MySQL database

Interactive Image-Space Refraction, Computer Graphics, NY *February 2015 - May 2015*

- Developed OpenGL project in C++ and programmed in Unix Bash
- Designed and tried out different **3D math models** to mock refraction phenomenon and compared them
- Solved 3D model problem using Linear Algebra and Geometry

HONORS:

- Google Code Jam 2016 –Qualification Round
- Women in Computer Science Society - ACM-W Chapter (Spring 2013-Spring 2015)
- New York State Research Foundation Scholarship -\$3,500 (Summer 2013)
- Stony Brook University Dean's List (Fall 2011-Fall 2015)
- Cum Laude (Spring 2016)

SKILLS:

- Programing Language: **Java(3 yrs)**, C/C++(2 yr), **Python(1 yr)**, PHP, **Bash(3 yrs)**, **Git**
- Database: MySQL, SQLite, MongoDB;
- Web Related: Bootstrap, Meteor.js, Angular.js, Require.js, Restful API, Node.js, slim

Relevant Courses:

Data Mining; Algorithm; Theory of Computation; Cloud Computing; Computer Architecture; System Programming; Computer Networks; Operating System

Additional Skills:

- Ability to learn fast, solve complex problems and communicate clearly and effectively
- Bilingual in English and Mandarin Chinese

OTHERS:

- BitTiger Blog Team Operation and Strategy Planning
- Self-learning **Scala** & Machine Learning Project & Participate in **Kaggle** Competition