Jie **Liang**

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Education

Stony Brook University   *Stony Brook,NY*

B.S. in Computer Science and Applied Mathematics (Double Major) GPA: 3.57   *(Expected) May'17*

Skills

Languages:	Java, HTML/CSS/JavaScript, Python, SQL, Matlab(familiar)
Libraries/Frameworks:	JQuery, Bootstrap
Selected Courses:	Database Systems, Computer Networks, Differential Equations, Game Theory
Tools/Softwares:	Eclipse, NetBeans, Git, PyCharm
Operating Systems:	Mac OS X, Ubuntu, Windows

Projects

Netrade –Teamwork (3)   *Web App*

Class Project   *2016*

- Implemented System design, implementation, and deployment with Eclipse, Tomcat, MySQL
- Designed Back-end with JDBC, Servlets, and Front-end design and implementation with jQuery, JSP
- Feature implementation for user authentication, stock transaction, and ATM features

EPortfolio Generator   *Desktop App*

Class Project   *2015 - 2016*

- Defined a one-to-many dependency relationship between objects using Observer Design Pattern
- Implemented multiple-threads animation by using JavaFx to interact with users
- Utilized MVC Architecture to define a dependency relationship between objects

Nxt Stop –Teamwork (2)   *Web App*

Hackathon   *2016*

- Designed and implemented a high performance web service for analyzing Foursquare API data with various queries
- Built a web application using Python, Foursquare API, CSS, HTML, JavaScript, PyMongo

Experience

Teaching Assistantship (Prof. Richard McKenna, Prof. Xinyun Chen)   *Stony Brook, NY*

Teaching Asistant - Computer Science III, Finite Mathematical Structures   *Aug'15 - Present*

- Proctoring programming labs in which students would be asked to complete exercises to gain experience using Java in practice
- Aiding students by answering questions, providing guidance through exercises, and explaining how to apply relevant computer science concepts

Charmtech Lab LLC   *Stony Brook, NY*

Intern   *May'16 - Aug'16*

- Improved system performance by identifying problems; recommending changes.
- Achieved computer system objectives by gathering pertinent data; identifying and evaluating options

Undergraduate Research, Computer Science Department(Prof. Zhenhua Liu)   *Stony Brook, NY*

Researcher for <Optimizing the performance of data centers using various algorithms>   *Sep'15 - May'16*

- Designed energy procurement algorithms save up to 47% of the total electricity cost compared to traditional algorithms that do not use multi-timescale electricity markets and geographical load balancing
- Implemented non-convex optimization to achieve up to 25% peak reduction and 30% improvement on voltage violation frequency

Publication

(In Review) Optimal Energy Procurement for Geo-distributed Data Centers in Multi-timescale Markets

- Authors: Tan N. Le, Jie Liang, Zhenhua Liu, Ramesh Sitaraman, Jayakrishnan Nair, Bong Jun Choi