Shilong Li

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EDUCATION

Stony Brook University, Stony Brook, New York   **February 2021 – Expected December 2022**
M.S. in Computer Science

Stony Brook University, Stony Brook, New York   **August 2016 – May 2021**
B.S. in Computer Science and Applied Math and Statistics

EXPERIENCE

Rescond
Software Development Engineer Intern   **June 2021 – September 2021**
- Developed digital-to-analog programs for generating electrocardiogram at different heart conditions and helped pass more than 100 tests as well as improve the accuracy of ECG on the defibrillator.
- Designed and built testing program on the Microcontroller of automated external defibrillator within an agile team and made the tests more specific and boosted the process two times faster.

Stony Brook University
Research Assistant at Ethos Lab - Principal Investigator: Amir Rahmati   **May 2019 – December 2020**
- Analyzed and optimized Machine Learning related projects and made improvements over 10 real-world projects with a weekly presentation in a team of four.

Tutor/Teaching Assistant for Foundations of Computer Science   **January 2019 – December 2020**
- Taught more than 50 students in weekly classes and graded project and exams for over 200 students while mentoring more than 20 Teaching Assistants.

PROJECTS

Master's Student Tracking   **May 2021**
JavaScript with Node.js, MySQL—Registration system manages master students' classes and graduation status.
- Designed the User interface and functionalities made the system convenient and powerful.
- Set up the database and made strong extensibility functionalities connected to the database.

Frugal_ML   **May 2019 – May 2020**
Python, Java—Image recognition and malicious URL detection Deep learning program runs on Android devices. Worked with Professor Amir Rahmati and two other PhD students in a team of four.
- Improved models' performance and optimized the code by comparing with cutting edge papers.
- Used ADB commands and monitored Android devices performance status, and the four monitor properties are CPU, Memory, Battery and Temperature.
- Collected data and drew graph to find the tradeoffs to improve performance.

The Brave Twin Knights   **May 2020**
TypeScript—2D Puzzle-Platformer made with Gulp and Phaser.
- Designed and implemented multiple puzzle mechanics with proper physics in each level in a team of three and won Top 3 at SBU 16th Annual Game Programming Competition.

Online Stock Trading System   **February 2019 – May 2019**
MySQL, Java—Stock trading WebApp with database designed with MySQL runs on Tomcat.
- Designed robust queries for transactions in MySQL and linked them to the web user interface.

SKILLS

Technical Skills
- Java, Python, C, C++, JavaScript, Ruby, Swift, Unix/Linux, MySQL, HTML, CSS

Language Skills
- Mandarin