

Shilong Li

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EDUCATION

State University of New York at Stony Brook

08/2021 – Expected 05/2024

M.S. in Computer Science

State University of New York at Stony Brook

08/2016 – 05/2021

B.S. in Computer Science & Applied Math and Statistics

EXPERIENCE

COSCO Shipping

09/2022 – 12/2022

Software Development Engineer Intern

- Developed an algorithm that predicts the ship's cargo volume given the Draft and the Deadweight tonnage with about 80% accuracy. Successfully determined the ship's loading status and detected the unmarked ports or Floating Storage such as FSO and FPSO.

Rescond

06/2021 – 09/2021

Software Development Engineer Intern

- Designed and built the UI and functionalities of in-hospital defibrillator in QT Creator with C++. Greatly boosted the running speed and memory usage by applying the logic of state machine and proper data structures.
- Developed digital-to-analog programs for generating electrocardiogram at different heart conditions and helped pass more than 100 tests.

Stony Brook University

05/2019 – 12/2020

Research Assistant at Ethos Lab - Principal Investigator: Amir Rahmati

- Analyzed and optimized Machine Learning related projects and made improvements over 10 real-world projects with a weekly presentation in a team of four.

PROJECTS

Master's Student Tracking

05/2021

JavaScript with Node.js, MySQL—Registration system manages 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

05/2019 – 05/2020

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.

The Brave Twin Knights

05/2020

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

05/2019

Java, MySQL—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, Swift, Unix/Linux, SQL, HTML, CSS

Language Skills

- Mandarin