

# Emily Ly

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## Education

### Stony Brook University

Bachelor of Science in Computer Science

Relevant Coursework: Algorithms & Data Structures, Database Systems, Networks, Object Oriented Programming, System Fundamentals

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Stony Brook, NY

September 2016 - May 2020

## Work Experience

### Liquidnet

Full Stack Developer Intern

New York, NY

May 2019 - August 2019

- Developed RESTful API web services across multiple internal applications using Angular framework by modifying user feature permission access, requirements and functionality as well as build frontend components to display necessary information to users
- Collaborated on a proposal with a team of seven interns to design a AI/ML approach of increasing customer retention on a application feature by utilizing past data collected to adjust appropriate parameters to enhance and ease the user's experience
- Participated in Scrum/Agile monthly and daily meetings regarding project development and ticket progress with my team

### Stony Brook University: Division of Informational Technology

IT Support Technician

Stony Brook, NY

September 2018 - May 2020

- Performed diagnostics, backed up data, troubleshooted various challenging technical issues for university faculty/staff and students
- Incorporated client feedback with customer service performance to boost client satisfaction and resolve issues smoothly
- Utilize a cloud-based ITSM system to report and follow up ticket requests, to communicate and route problems to other departments, in order to resolve and identify patterned issues

### Viacom: Girls Who Code Summer Immersion Program

Participant

New York, NY

July 2015 - August 2015

- Attended an intensive course in robotics, web development, mobile development and mentoring from female engineers
  - Constructed a political biography web application with a team of three to display information on the running candidates in 2015
  - Collaborated with programmers and designers to define and develop game UI/UX concepts in game design
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## Projects

### C4ME | HTML, JavaScript, React, SCSS

January 2020 - May 2020

- Worked in a team to design and develop a single-page application to aid students in managing their college application process
- Built API endpoints and devised CRUD operations for admin and students to update app status and detect questionable acceptances
- Web scraped and parsed through college data for importing to the database from Niche.com and collegescorecard.ed.gov

### Rating Predictor | Python

April 2020 - May 2020

- Designed a sentiment analysis program utilizing word to vector embeddings to predict ratings based on product reviews
- Upgraded the predictor by running Principal Component Analysis on computed user-factor adaptation data for improved predictions
- Exercised deep learning techniques through creating a LSTM recurrent neural network to further boost predictions

### Movie Archive | Python, SQL

October 2018 - November 2018

- Developed a web application with a MVC design to provide users with information on movies using data fetched with IMDbPY
- Mapped an ER diagram and translated the model creating DDL statements to construct the database schema and transactions
- Implemented the app using Flask as the backend framework with Jinja2 Templates and Semantic UI framework as the frontend
- Stored and retrieved data using SQLite3 to execute transactions available to users with specifically written queries

### Biometric Lockbox | C++

December 2017 - February 2018

- Constructed a wooden lockbox which locked/unlocked using a fingerprint scanner that recognized as well as stored fingerprints
  - Programmed the event handling of the fingerprint scanner using C++ to accurately interact with the locking mechanism through an Arduino board and handled issues of inconsistent scanning which resulted in fewer delays and more reliable readings
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## Leadership Experiences

### Theta Tau Professional Co-Ed Engineering Fraternity - Stony Brook University

Corresponding Secretary, Event Coordinator

Stony Brook, NY

January 2018 - May 2020

- Served as an Executive Board member, maintained communication with members and the Fraternity as a whole, trained officers and delegated officer responsibilities as necessary, collaborated with regional chapters to coordinate networking mixers and gatherings
- Promoted relationships with North-East regional Chapters and Greek Organizations at Stony Brook University by advertising events hosted by those student organizations, thereby improving chapter and on-campus relations as well as on-campus presence

### Cyber Security Club - Brooklyn Technical High School

President, Founder

Brooklyn, NY

September 2015 - June 2016

- Founded the club and managed a group of 30 members while tracking open source educational material using Github
  - Organized practice challenges and managed club participation in cyber security competitions (i.e. CSAW CTF, HSCTF, etc.)
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## Technical Skills

**Programming Languages:** Java, JavaFX, SQL, Python, XML

**Web Design:** HTML, CSS, Bootstrap, PHP, Javascript

**Tools:** Git, IntelliJ Idea, Autodesk Inventor, LaTeX

**Languages:** Working Proficiency in Cantonese