Amy Shin

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Education

Stony Brook University | *B.S. in Computer Science* | GPA: 3.1/4.0   Graduation: *May 2020*

Work Experience

Managed by Q | *Software Engineer Intern* | *Python, JavaScript, React, HTML, SCSS.*   *June 2019 – August 2019*
- Integrated popular search feature with backend and database to show popular searches when a user clicks on the search bar.
- Designed and implemented an "Export as CSV" button with backend integration to export invoices with relevant data.
- Implemented UI feature flags throughout the single-page application to alert users of a sales tax change.
- Created a collapsible banner that was not included in their UI repository.
- Wrote unit tests for features in the frontend and test cases in Selenium.
- Converted JavaScript files in the frontend to TypeScript files.

Island Photography | *Production Intern*   *May 2018 – June 2018*
- Arranged over 10000 photos in their system and matched them to graduates using name cards, audio files, and pamphlets.
- Entered data of graduates such as their address or email and sent them to the printing and emailing queue to encourage them to buy portraits. Mailed out over 15000 portrait order forms and emailed over 1000.

Projects

College4Me | *Python, JavaScript, React, HTML, SCSS*   *March 2020 – May 2020*
- Spearheaded the frontend for a single-page application to help students manage their college application process.
- Designed wireframes with Figma and built those pages in the frontend with backend integration and routing.
- Rendered an interactive scatter plot that represents test score data of students who applied to a selected college and their admission decisions.
- Implemented pagination to showcase college and high school card components.

Rating Predictor | *Python*   *April 2020 – May 2020*
- Implemented a sentiment analysis system with word to vector embeddings to predict ratings given product reviews.
- Optimized the rating predictor with user-factor adaptation and computed predictions with Principal Component Analysis.
- Applied deep learning principles by creating a Long Short-Term Memory Network to further improve predictions by 2%.

TabGuard | *JavaScript, HTML, CSS*   *October 2019 – December 2019*
- Developed a Chrome extension that alerts users of malicious activity, tabnabbing, by using image comparison and allows them to report the website to blacklist it.
- Designed and set up the frontend for the extension and popup that notifies users that a website has been blacklisted.
- Integrated the URL blacklisting feature in the frontend with the backend and the AWS server.

Movie Directory | *SQL, Python*   *September 2018 – November 2018*
- Designed a website that provides users information on movies using real data pulled from the IMDb database.
- Implemented the backend of the project using Python with a Flask Framework. Handled different routes and connected each route to the corresponding SQL query and then rendered the appropriate template.
- Utilized SQLite with the SQLite3 Python Module and created SQL statements to gather results from the database depending on the transaction (ex. Search Movie by Movie Name, Search Movies by Genre, Get All Directors, etc.).
- Created an ER Diagram and then used DDL statements to establish the database schema and transactions.

Technical Skills
- Proficient in Python, HTML, CSS, JavaScript, React, Java, Git
- Familiar in Express.js, Node.js, TypeScript, Django, Docker, Jenkins, RabbitMQ, C, SQL, Sequelize, Selenium, R

Leadership

Theta Tau | *Co-Rush Chair (Jan 2018 – May 2018)* | *Event Coordinator (May 2017 – Dec 2017)*   *April 2017 – May 2020*
- Coordinated recruitment events by establishing ideas, booking rooms, providing refreshments, and updating the chapter's informational presentation. Contacted potential members to attend events and to increase interest; recruited 7 new members.
- Organized events with on-campus organizations and other chapters, thereby improving on-campus relations and increasing on-campus presence.