JEFFREY WONG

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EDUCATION

Stony Brook University (Stony Brook, NY)   **August 2016 – May 2020**
Graduated: May 2020
Degree: B.S. in Computer Science; *GPA*: 3.76/4.00
Awards: Dean's List for Fall 2016 to Spring 2020, Graduated magna cum laude

EXPERIENCE

Masu Internet   **May 2017 - August 2017**
Web Development Intern

- Cooperated with other interns to redesign the website of STUF United, a non-profit organization.
- Increased user attraction and retention rates by 50% and increased average total monthly donations by $15.
- Cooperated with another intern to create a life insurance quote website with a survey that collects participant information into a database.
- Communicated with clients to ensure that websites created met their standards by creating prototypes and showing in-progress sites.

PROJECTS

Other projects and interests can be found at my personal site: jeffrewong.github.io

Twitter Clone   **Technologies used: JavaScript, NodeJS, MongoDB, HTML**

- Course project aimed at emulating the functionality and user capacity of Twitter in its early stages on an OpenStack cloud environment across Linux virtual machines.
- Created API endpoints using ExpressJS that handle basic Twitter functionality such as posts, search, media upload and persisted this data using MongoDB.
- Reached ~600 concurrent requests per second with a 95% tail latency of ~160ms.

State Redistricting System   **Technologies used: Java, Python, HTML, CSS, AngularJS**

- Capstone project that focused on redrawing voting district lines to minimize voter unfairness for potential use in political science studies.
- Created a RESTful API using JAX-RS to handle client requests to process thousands of voting precincts into several districts.
- Utilized the Leaflet map API to display state, district, and precinct level data and boundaries as the process is running.
- Persisted redistricted maps into a MySQL database to allow the user to load and compare them with each other via JPA.

Course Site Manager   **Technologies used: Java, HTML, CSS, JavaScript**

- Course project aimed at going through the entire SDLC by creating a tool to assist Stony Brook University professors in generating and managing the content of course sites.
- Utilized JavaFX to provide a user interface for course site customization and persisted user selections in JSON format for later use and for generating sites.
- Created design documents with UML and flow diagrams and created test cases using the JUnit test suite.

SKILLS

- Fluent with: Java, Python
- Previous Knowledge/Usage of: HTML, CSS, C, PHP, SQL, JavaScript
- Technologies I am familiar with: Linux, Git, NodeJS/ExpressJS, AJAX, REST API, MongoDB