Aaron Li

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github

Education

Stony Brook University, College of Engineering and Applied Sciences | **GPA: 3.5/4.0** | **Aug 2020 - May 2024**
Major: Computer Science BS

Projects

ViBE | **React, Svelte, JavaScript, TypeScript, Playwright, Firebase, Git, npm** | **prototype - docs - v1 code - v2 code**
Application for users to retrieve song recommendations by utilizing Spotify API
- Wrote end-to-end tests with Playwright to automate testing and ensure application is functioning as intended
- Produced detailed design documents to provide comprehensive guides to project tasks for better workflow
- Retained user information safely and securely using Firebase to ensure user privacy and accessibility
- Researched web accessibility standards to guarantee equal access to the web for people with disabilities
- Implemented responsive web development to allow an optimal viewing experience for users regardless of device

Playlister | **React, JavaScript, Express, MongoDB, Git, Lucidchart, Postman** | **prototype - sequence uml diagram - code**
Application for users to create, save, publish, and play YouTube music videos by utilizing YouTube API
- Created UML diagrams, use case documents, and wireframes to allow for a quicker frontend development
- Maintained version control to track changes and quickly resolve integration conflicts within code
- Constructed and sent HTTP requests with Postman to test and verify API request objects are correctly formatted
- Implemented industry design patterns to combat common problems seen with object-oriented systems
- Utilized NoSQL database solution to support complex queries and remain flexible with scalability

Experience

Graphic Designer | **Asian Students Alliance** | **Sep 2021 - Present**
- Developed visuals with e-board and over 10 campus organizations to increase event participation by 120%
- Achieved a track record of meeting and exceeding deadlines to produce quality results in a pace-paced environment
- Mentored member on role responsibilities and technologies in preparation to assume and excel in position
- Revised and enhanced website to effectively educate students about our mission to promoting asian culture on campus

Undergraduate Researcher | **Stony Brook University** | **Jan 2022 - May 2022**
- Collaborated with campus faculty and members to develop and execute a marketing strategy to grow presence by 65%
- Researched and wrote competitive and SWOT analysis to identify areas of improvement within the service
- Built a degree audit application by implementing search and filtering algorithms to provide an advising service
- Obtained LSSGB certification to display adequate knowledge in basic tools and methodologies of Lean Six Sigma

Undergraduate Researcher | **Stony Brook University** | **Jan 2021 - May 2021**
- Designed and developed web components by following UI/UX principles to create custom and reusable UI elements
- Conducted testing with 3 member to detect and diagnose bugs, improving system functionality and user experience
- Assisted 7 members to build web application that displays data processed from motion sensors
- Integrated various communication tools to efficiently conduct meetings, resulting a seamless workflow

Technical Skills

- Graph, Sort, and Search Algorithms (ie Dijkstra's, Floyd Warshall's, merge sort, topological sort, binary search, DFS, BFS)
- Technical Writing, UML, Wireframing, Prototyping, UI/UX (ie Design docs, LucidChart, Figma, Adobe Suite, Canva)
- Programming paradigms (ie Concurrent programming, Synchronization, Thread Safety, Deadlocks, Cache Concepts, Races)
- Web development (ie React, TypeScript, HTML, CSS, WCAG 2.1, ADA, SQL, NoSQL, Bcrypt, Node, Express)
- Web Security (ie XSS, CSRF, SQL injection, RCEs, CSP, DoS, DNS attacks, authentication, server-hardening techniques)