Richard Wu

New York | richardwu442@gmail.com | (646)-249-1269 | GitHub
https://git-richardwu.github.io/personal-website

EDUCATION

University at Buffalo | Buffalo, NY   **August 2018 - May 2022**
- Bachelor of Science, Computer Science
- **Coursework:** Data Structures, Applied Human Computer Interaction and Interface Design, Algorithm Analysis and Design, Software Engineering

---

PROJECTS

Feed the Cats | React, TypeScript, Sass **|** GitHub   **May 2023 - June 2023**
Fast-paced browser game that involves accurately preparing and delivering dishes to feline patrons
- Wrote the game's logic in React and TypeScript to efficiently update components and assets, optimizing overall responsiveness and fluidity of gameplay loop
- Configured random sequence and position generation along with a retentive scoring system to increase player engagement metrics
- Incorporated minimalist interface with animations to provide visual feedback and readability
- Leveraged the benefits of TypeScript's static typing to allow for smooth integration with React, improving code reliability and maintainability

Collaj | MongoDB, Express, React, NodeJS, Render, JavaScript **|** GitHub   **Sep 2022 - Nov 2022**
MERN-based web application of a dynamic art gallery that sorts entries by hue
- Built and deployed REST API using Express and NodeJS to perform CRUD operations with MongoDB
- Developed encrypted authentication system with JWT and BCrypt for persistent user sessions
- Utilized Puppeteer to scrape relevant artwork data (including image link, project title, and artist name) from 100+ URL submissions
- Integrated an automated test suite with Mocha and Chai to verify behavior and performance

Food for Thought | Swagger, React, JavaScript **|** GitHub   **Feb 2021 - May 2021**
Recipe sharing social media platform with a tag-based recommendation system
- Designed wireframe with interactive flows using Figma to streamline production time by a week
- Spearheaded implementation of features (including profile picture, onboarding process, and profile navigation) to enhance user experience and usability
- Composed and reviewed user stories, acceptance tests, and task tests to ensure code quality
- Conducted usability tests and highlighted design decisions with accessibility principles in mind

---

EXPERIENCE

New Design High School   **July 2023 - Present**
Technology Support Specialist
- Coordinate with Chief of Systems and Accountability to develop script for updating spreadsheets and staff calendar with scheduled absences, reducing manual data entry time by 80%
- Deliver continuous support to instructors and staff members in resolving hardware and software issues
- Maintain inventory and routine diagnostics of over 500 devices and peripherals for repair records
- Became an administrator for Google Workspace to manage email accounts
- Managed and verified the operational readiness of over 250 devices for PSAT/SAT examination

---

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, TypeScript, Scala, Dart, HTML, CSS, Sass, C, OCaml, SQL
Frameworks and Packages: Bootstrap, React, Express, NodeJS, Mocha, Chai, Puppeteer, Flutter, Pandas, NumPy, Socket.io
Tools and Platforms: Git/GitHub, VS Code, Postman, MongoDB, Figma, Google Apps Script, Android Studio