Richard Wu

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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

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PROJECT

Personal Website: https://git-richardwu.github.io/personal-website

Collaj | MongoDB, Express, React, NodeJS, Render, Javascript **|** GitHub   **Sep 2022 - Nov 2022**
MERN-based web application of a responsive 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 URL submissions
- Integrated an automated test suite with Mocha and Chai to verify behavior and performance

Bao | Python, Flask **|** GitHub   **Feb 2021 - May 2021**
Discord bot maintained via the cloud that responds to user messages and commands
- Designed and implemented subscription-based system where users can request recipes from different cuisines
- Expanded functionality to fetch trending Reddit posts from specific forums with PRAW
- Revamped structure of code by introducing modularity to improve scalability and maintainability

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

Virtual Desktop | MongoDB, Express, React, NodeJS, Heroku, Javascript **|** GitHub   **Sep 2020 - Dec 2020**
Dashboard of virtual tools and services to help users maximize their productivity
- Devised and punctually delivered features for weekly project meetings alongside a team of four following the Scrum technique
- Co-lead front-end development of application with React and prototyped user interface
- Produced a series of quality-of-life components (including global timer, dark mode, and search bar)
- Oversaw and maintained proper pipelining of application on Zenhub to evaluate task priorities

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SKILLS & INTERESTS

Programming Languages: Python, JavaScript, Scala, HTML, CSS, C, OCaml
Frameworks and Packages: Bootstrap, React, Express, NodeJS, Mocha, Chai, Puppeteer, Pandas, NumPy
Tools and Platforms: Git/GitHub, VS Code, Postman, MongoDB, Figma
Interests: Unity Game Engine, Cooking, Chess, Dragon Boat