

# 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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## 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
- 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
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## EXPERIENCE

**New Design High School**

**July 2023 - Present**

*Technology Support Specialist*

- Devise and implement script for updating spreadsheet and staff calendar with scheduled absences
  - 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
  - Coordinated and verified the operational readiness of over 250 devices for PSAT/SAT examination
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## 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

**Tools and Platforms:** Git/GitHub, VS Code, Postman, MongoDB, Figma, Google Apps Script, Android Studio

**Interests:** Unity Game Engine, Cooking, Chess, Dragon Boat