

# Tony Qiu

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## EXPERIENCE

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### Web Developer | Allway Media Design

May 2023 — Aug. 2023

- Designed and developed company profile websites using WordPress, HTML, CSS, JavaScript, PHP, and Figma
- Implemented honey pot fields and JS regex to reduce spam messages on client sites by 100%
- Ensured requirements of each project were met by utilizing clear and proactive communication with stakeholders

### Web Developer | BrightBearsInfo

May 2021 — Apr. 2023

- Led the redesign and development of the startup's profile website using HTML, CSS, JavaScript, and Figma
- Pioneered a campaign to improve SEO, resulting in a 72% increase in user traffic after 3 months
- Optimized rendering in the event loop by rewriting layout thrashing code and lazy loading images, decreasing user bounce rates by 55%

## PROJECTS

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### [Spotify Playlist Image Generator - Hack the North 2023](#) | React, FastAPI, CockroachDB, SQL

Sep. 2023

- Worked in a team of 4 to build a website that lets users create AI-generated images for their Spotify playlists
- Utilized effective **React** state management and server fetching to build an animated single-page UX that progresses through 6 different synchronized phases
- Identified an opportunity to implement Python Pools in a **FastAPI** (python) server to speed up bulk song description building, reducing latency in the core feature by 33%
- Used **SQL** to build CRUD server middleware to interact with user data stored in a CockroachDB (SQL) database

### [Website Traffic Tracker + Traffic Visualizer](#) | React, Express, MongoDB, Docker

Aug. 2023

- Programmed an importable JS file to provide developers with critical insights into their websites' online presence
- Used React to build a website that visualizes traffic data stored in a **MongoDB** cluster by querying an **Express** API
- Modeled schemas to facilitate **time-based querying**, enabling users to view trends and patterns over time

### [Next.js Component Library](#) | Next.js, React, TypeScript, Jest, React Testing Library

July 2023

- Developed a suite of 49 Next.js components to streamline and promote customized frontend development
- Utilized test-driven development with **Jest** and **React Testing Library** to unit test 39 components
- Built flexible sliding panels, pop-ups, navigational tabs, interactive menus, tables, and pagination component

### [Job Portal + Job Management CMS](#) | React, Express, TypeScript, Docker, MongoDB

Feb. 2023

- Built a job portal covering the applicant UX from start to finish alongside an admin CMS for job and user management and to interact with the web app's performance over time
- Leveraged AWS **S3** to let users upload PDF files to the cloud and admins to view submitted documents
- Other features: Used **JWTs** to authenticate API routes, architected a 'redirect' component to protect UI from unauthenticated users, hashed user data in MongoDB database, and created a **WebSocket** server using ws

## SKILLS

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**Languages:** TypeScript, JavaScript, HTML, CSS, Java, Python, SQL, PHP

**Tools and Databases:** Git, Docker, Jenkins, Kubernetes, Jira, Selenium, Postman, MySQL, Figma, AWS

**Libraries/Frameworks:** Redux, Cypress, Storybooks, React.js, Angular.js, Flask, React, Jest, React Testing Library

## EDUCATION

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**The University of Waterloo**

Bachelor of Applied Science - BAsC, Management Engineering

**Waterloo, ON**

Sep 2022 - Apr 2027