# TONY QIU

tonyqiu.ca | github.com/tonyqiu123 | tqiu@uwaterloo.ca | (437) 774-3365 | linkedin.com/in/tonyqiu1

## SKILLS

**Languages:** SQL, JavaScript, Java, Python, VBA
**Technologies:** React.js, Node.js, Express.js, MongoDB, HTML, CSS, Docker, Kubernetes, Bootstrap, Tailwind
**Developer Tools:** AWS, Git, Figma, Postman

## EXPERIENCE

**Tony's Web Designs**, *Freelance Web Developer*                                *Toronto, Canada,* **Jul 2022 – Present**
- Designed and developed responsive websites from scratch for local businesses using **HTML**, **CSS**, and **JavaScript**
- Used Google Analytics to **A/B test** 3 separate landing pages for a client's website, increasing online inquiries for their business by 77%

**BrightBearsInfo**, *Full Stack Web Developer*                                *Toronto, Canada,* **May 2021 – July 2022**
- Led a team of 3 through the agile scrum methodology as a **scrum master** to design and develop the website from scratch using **Figma**, **HTML**, **CSS**, and **JavaScript**
- Coordinated with 2 product owners to gradually improve the site's traffic (93%), bounce rate (-66%), page views (117%), and conversion rate (63%)
- Optimized rendering in the **event loop** by rewriting layout thrashing code and lazy loading images, decreasing the loading time of the landing page by 44%

**Sir John A. Macdonald CI Coding Club**, *Vice President and Mentor*          *Toronto, Canada,* **Sep 2021 – Jun 2022**
- Mentored passionate highschool students about **HTML**, **CSS**, and **JavaScript** for a cumulative 20 hours
- Explained concepts including **HTTP protocols**, the event loop, **hoisting**, **DOM manipulation**, and async programming

## PROJECTS

**Job Portal**                                                                               **Mar 2023**
- Designed and developed a web app to help administrators upload and manage jobs across multiple platforms (Indeed, Glassdoor, Linkedin, and ZipRecruiter)
- Built the front-end using **React** (**typescript**) and the server using **Node.js**
- Designed a versatile data table component with dynamic sorting and multi-delete operations. Built to accept any array of objects, enabling custom property sorting and the execution of passed prop functions for a given item
- Hashed user passwords in the API by generating salt using the bcrypt library before storing to a **MongoDB** database
- Differentiated users in the server by burning their ID in the **JWT** to later be used to fetch their data
-

**Portfolio Website**                                                                        **Jan 2023**
- Developed a responsive web app to display personal projects and blog content stored in a **MongoDB** database
- Used **React.js** for the frontend, **Node.js** for the backend, and the **AWS EC2** Ubuntu instance to host the server
- Implemented the **MVC architecture** for code scalability, directly reducing backend code by 500+ lines
- Utilized **Git** and **Github** for version control and **Postman** for debugging of API

**Decision Support System**                                                                  **Dec 2022**
- Worked in a team of 4 to build a productivity workspace for university students using **Excel** and **VBA**
- Implemented the **knapsack algorithm** using **macros** to increase user's daily productivity by up to 28%
- Monitored development of the project by writing project plans and status reports at the end of each milestone

## EDUCATION

**University of Waterloo**
**Bachelor of Applied Science - BASc, Management Engineering**                   **Sep 2022 - Apr 2027**
University of Waterloo President's Scholarship of Distinction Recipient (95.8% entrance average)