# TONY QIU

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## 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** the performance of 3 separate landing pages for a client's website, resulting in a 22% increase in online inquiries for their business
- Implemented **regular expressions** in **JavaScript** to reduce spam messages sent through the contact form by 99%

**BrightBearsInfo**, *Full Stack Web Developer*                    *Toronto, Canada,* **May 2022 – Present**
- Led a team of 3 through the agile scrum methodology as a scrum master to design and develop the website using Figma, HTML, CSS, and JavaScript
- Worked closely with 2 product owners to strategize the optimization of 4 separate hard metrics
- Optimized rendering in the JavaScript event loop by rewriting layout thrashing code and lazy loading images, decreasing the loading time of the landing page by 31%

**Sir John A. Macdonald CI Coding Club**, *Vice President and Mentor*          *Toronto, Canada,* **Sep 2021 – Jun 2022**
- Mentored highschool students about **HTML**, **CSS**, and **JavaScript** for a cumulative 23 hours
- Explained concepts including **HTTP protocols**, the **JavaScript event loop**, and **DOM manipulation**

## PROJECTS

**Job Portal**                                                              **Feb 2023**
- Designed and developed a job portal web app to help applicants easily apply to numerous jobs in a company
- Built the front-end using **React.js** and created a **REST API** with **CRUD** operations using **Node.js**
- Supplanted job **get requests** with **object manipulation**, decreasing number of **API** requests by 48%
- Hashed user passwords in the **API** by generating salt using the **bcrypt** library before storing to a **MongoDB** database
- Developed middleware to authenticate user routes by validating **JWTs** in an **Express.js** server

**Portfolio Website**                                                        **Jan 2023**
- Developed a responsive web app to display personal projects and blog content stored in a **MongoDB** database
- Used **React.js** to build the UI and **Node.js** to develop a **REST API**, hosted backend using **AWS EC2** Ubuntu instance
- Implemented the **MVC architecture** for scalability, reducing backend code by 300+ 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)