

# TONY QIU

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## SKILLS

**Languages:** JavaScript, Java, SQL, Python, VBA

**Technologies:** React.js, Node.js, Express.js, MongoDB, HTML, CSS, Docker, Kubernetes, Bootstrap, Tailwind

**Developer Tools:** AWS, Git, Figma, Postman

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## 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 3 developers through the **agile scrum methodology** as **Scrum Master** to design and develop the website using **Figma**, **HTML**, **CSS**, and **JavaScript**, leading to a 74% increase in monthly traffic
- Developed interactive components including modals, dropdown menus, carousels, cards, and blog posts
- Optimized rendering in the **JavaScript event loop** by rewriting layout thrashing code and lazy loading images, decreasing 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**
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## PROJECTS

### Modern 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 **Express.js** and **Mongoose**
- Supplanted frequent job **get requests** with **object manipulation**, decreasing number of **API** requests by 48%
- Hashed user passwords by generating salt using the **bcrypt** library before storing to a **MongoDB** database
- Implemented complete validation of users by generating and validating **JWTs** in the 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 **Express.js** and **Mongoose** to develop a **REST API**
- 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
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## 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)