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 3 developers through the **agile scrum** methodology as **scrum master** to design and develop the website using **Figma**, **HTML**, **CSS**, and **JavaScript**
- Communicated with product owners to establish and deliver on hard metrics, increasing monthly user traffic by 76%
- 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**

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 **Node.js**
- Supplanted 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 user login 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 **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)