

# Ken Jiang

(647) 936-9283 | [ken.jiang@uwaterloo.ca](mailto:ken.jiang@uwaterloo.ca) | [linkedin.com/in/ken-jiang](https://www.linkedin.com/in/ken-jiang) | [github.com/kenzoengineer](https://github.com/kenzoengineer) | [kenjiang.ca](https://kenjiang.ca)

## EDUCATION

---

### University of Waterloo

Computer Engineering Candidate - B.A.Sc

Waterloo, Ontario

Expected May 2025

## SKILLS

---

**Languages:** Java, C#, C++, Python, TypeScript, JavaScript, SQL, HTML, CSS

**Frameworks/Libraries:** React, Jest, Node, Bootstrap, SCSS, Stylus, .NET

**Tools:** Git, Github, Gitlab, Jira, Enzyme, AWS (Amplify, EC2), SQL Server, PostgreSQL, MongoDB, Docker, Unity

## EXPERIENCE

---

### Software Developer

May 2022 – August 2022

*Shoplogix*

- Contributed to the development of our manufacturing data visualization software
- Created and validated unit tests in **Jest** and **Enzyme**, achieving 96% code coverage over 5+ features
- Built 5+ **API endpoints** in **C#** using **Nancy**, fetching data from **PostgreSQL** with response times under 50ms
- Developed a settings management system with inheritance and overriding for over 10 views, taking advantage of tree and map **data structures**
- Synthesized a **React** component to parse 10+ custom URL parameters, simplifying product deployment to clients

### Application Developer

September 2021 – December 2021

*QBuild*

- Developed the company's Engineering Change Notice management web app system
- Revamped initial load with **asynchronous** logic in **C#** to improve loading performance by 15 times
- Created a responsive image upload feature which processed files into **SQL Server** in under 500ms
- Built a fully fledged comments section using **Telerik UI**, complete with email notifications and mentions

### Application Developer

January 2021 – April 2021

*QBuild*

- Designed new features and pages for our in-house CRM solution
- Overhauled **SQL Server View** and **Stored Procedure** implementations leading to 30 times improvements in data fetching speeds
- Updated **.NET** codebase with better usage of **OOP** paradigms such as inheritance and polymorphism increasing maintainability and readability

## VOLUNTEERING

---

### Hack the North

September 2022

*Workshop Lead*

- Educated 50+ hackers on the basics of Discord bot development in **Javascript**
- Introduced hackers to the Art Institute of Chicago API utilizing **undici** to fetch data
- Demonstrated methods of deployment using **Replit**, **Raspberry Pi**, **Heroku** and **AWS** (Beanstalk and EC2)

## PROJECTS

---

**TextTracker** | *JavaScript, Node, MongoDB, Discord.js*

- Built a message tracking discord bot using the **Discord.js API**
- Employed **MongoDB** as a database solution, allowing for cloud based data, simple scalability and flexible schema
- Deployed the application on an **EC2** instance for 100% uptime
- Leveraged the **event-driven** and asynchronous architecture for non-blocking data and retrieval leading to a seamless user experience