

# Ken Jiang

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## EDUCATION

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### University of Waterloo

Computer Engineering Candidate - B.A.Sc

Waterloo, Ontario

Expected May 2025

## SKILLS

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**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

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### 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 up 30 times improvements in data fetching speeds
- Updated **.NET** code with better usage of **OOP** paradigms such as inheritance and polymorphism increasing maintainability and readability

## PROJECTS

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**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
- Rendered clean and informative charts using quickchart.io
- Leveraged the **event-driven** and asynchronous architecture for non-blocking data and retrieval leading to a seamless user experience

**inPrint** | *Java, JavaScript, Node, Android Studio*

- Created a password vault protected by biometrics, autofilling credentials through a chrome extension
- Created reusable components in **Java** allowing for clear page structure
- Applied principles of **UI/UX** design impressing judges with a polished app despite the time constraint
- Attained second place overall at MasseyHacks V