

# Jessica Jiao

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## TECHNICAL SKILLS

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- **Languages:** C++, HTML, CSS, JavaScript, Python, SQL
- **Frameworks and Libraries:** React, Kivy, Flask, Scikit-Learn, SQLite
- **Software & Applications:** AutoCAD, SolidWorks, Figma, Git, Microsoft 365, Adobe Creative Suite, Linux,

## EDUCATION

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**Bachelor of Applied Sciences in Mechatronics Engineering** | *University of Waterloo* 2023 - 2028

- Coursework on AutoCAD, SolidWorks, C++ with a focus on Object Oriented Programming, technical drawing, and GD&T principles

## PROJECTS

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**Bluem Journaling App** | *Python, Kivy, SQLite, ChatGPT API*



- Developed a **gamified journaling app** allowing users to cultivate a virtual garden through completing mental wellness related tasks, achieving the **"Best Use of AI"** award at a hackathon
- Integrated **ChatGPT API** for personalised prompts, elevating the experience through **AI-driven user interaction**
- Engineered a **Python backend** and **SQLite database** for optimal functionality and user data management
- Crafted an interactive **Kivy-based user interface**, enhancing user engagement through intuitive design and navigation

**Bite G'Nite** | *Scikit-Learn, Python, Flask, HTML, CSS*



- Developed an interactive and educational website with an **image-based bug bite identifier** using Flask, and Scikit-Learn allowing users to upload images of the skin and determine the insect species that caused the bite
- **Trained an AI model** with a vast dataset of images to distinguish the differences between each bug bite with an **86% accuracy**

**MyRoom Portfolio Website** | *React, Javascript, HTML, CSS*



- Crafted a **immersive and responsive** personal portfolio website featuring an **interactive hand-drawn bedroom illustration** with floating components linked to separate pages to uniquely showcase my personality and work
- Implemented a **navigation bar**, using **React-Router** for easy and seamless page navigation
- Decorated the page with interactive elements such as a **toggleable dark mode**, **hover animations** and **animated backgrounds** to enhance **user experience**

**TooMatch2Do Dashboard** | *React, Javascript, HTML, CSS, GeoDB API, OpenWeatherMap API*



- Designed and developed a visually appealing **productivity dashboard** website with **multipurpose widgets**
- Developed a **to-do list** using Javascript to allow users to manage their daily tasks
- Implemented a **auto-fill search bar** for **512 cities** and a **weather widget** using **GeoDB API** and **OpenWeatherMap API**
- Programmed a **pomodoro timer** widget and a **digital clock** display using Javascript for users to balance their time usage

## EXPERIENCE

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**Freelance Digital Artist**

*Jan 2021 – Present*

- Generated **over \$1000** in commissions by creating visually captivating book covers and digital paintings for various novels and publications
- Developed **digital artwork** utilised as exclusive assets within an **NFT project** to exercise **digital proficiency and entrepreneurial spirit**

**President** | *John Fraser TED-Ed Public Speaking*

*Aug 2021 – June 2023*

- Led and facilitated productive weekly meetings by **communicating structured agendas**, goals, and expectations to **over 40 members**
- Efficiently **managed the club budget**, **optimising resource allocation** for maximum impact
- Maintained **comprehensive records** of club meetings for attendance, **financial transactions**, and **event planning**