



# Stefan Tuczynski

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## TECHNICAL SKILLS

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**Languages:** C++, Java, C, C#, Python, HTML, CSS, Javascript, Verilog, VHDL

**Libraries/Frameworks:** React.js, Next.js, Node.js, Tailwind CSS

**Tools:** Git, GitHub, VS Code, Unity, Vivado, Quartus Prime

**Other:** Arduino, Raspberry Pi, STM32, ESP32, Ubuntu, Windows, MacOS

## EXPERIENCE

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### Computer Research Support Assistant

May 2024 – August 2023

*University of Waterloo Electrical and Computer Engineering*

*Waterloo, ON*

- Deployed Windows operating systems using MDT to over 100 university computers.
- Created documentation using Markdown on creating Windows deployment shares for lab instructors.
- Troubleshooted Windows and Linux machines on various low and high-level errors.

### Frontend Developer

Sept 2021 – Aug 2023

*Crafting for a Cure*

*Toronto, ON*

- Developed new components for charity website using JavaScript
- Worked with the CEO of [Infinidiv](https://www.infinidiv.com) to discuss and implement changes to website production
- Generated over **\$1000** in donations through front-page interface changes

## PROJECTS


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### BloomBuddy | C++, Arduino, ESP32, HTML, CSS, Javascript

 [Project Link](#)

- Winner at **MakeUoft 2024 - Canada's largest hardware hack-a-thon**
- Developed an IoT plant system that responds to environment-variable data
- Integrated **OpenAI API** to create a personalized ML model that the user can communicate with
- Sensor data is communicated to a dynamic Javascript webpage via **UART protocol**

### FinTopia | C#, Unity, Meta Quest VR

 [Project Link](#)


- Winner at **Velocity Innovation Challenge: Imagining the Future of Finance**
- Created a user-friendly VR application that encourages financial literacy training
- Developed C# scripts in Unity that kept track of user data and handled internal logic

### PourPal | C++, STM32

 [Project Link](#)

- Built a medicine dispenser that administers medicine with **95% accuracy**
- Programmed a 12V pump, ultrasonic sensor, and flow sensor to calculate flow rate

### AnimeListApp | Java, JavaFX

 [Project Link](#)

- Developed a GUI interface that interacts with **over 16000** dataset objects
- Implemented several algorithms to search and sort entry points
- Generated dynamic graphs that adapt to user input using **object-oriented** principles

## EDUCATION

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### University of Waterloo

2023 - Present

*Candidate for Bachelor of Applied Science in Computer Engineering*

*Waterloo, ON*

- **Relevant Courses:** Data Structures and Algorithms, Fundamentals of Programming, Digital Computers, Digital Circuits, Project Studio