

# Stefan Tuczynski

✉ [svtuczyn@uwaterloo.ca](mailto:svtuczyn@uwaterloo.ca) | **in** [stefan-tuczynski](https://www.linkedin.com/in/stefan-tuczynski) |  [stefantzn](https://github.com/stefantzn) |  [stefantuczynski.com](https://stefantuczynski.com)

## TECHNICAL SKILLS

---

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

**Developer Tools:** Git, VS Code, XCode, Unity, React.js, React Native, Node.js, Next.js, Tailwind CSS

**Technical:** Arduino, Raspberry Pi, STM32, Tinkercad

## EXPERIENCE

---

### Website Manager

Sept 2021 – Aug 2023

*Crafting for a Cure*

*Thornhill, ON*

- Updated website using Webflow by implementing changes requested by the charity founder
- Worked with the CEO of [Infinidiv](#) to discuss and impliment changes made to the website
- Generated over **\$1000** in donations through front-page interface changes

### Design Leader

June 2021 – June 2023

*FTC Team 19946 - Team Titans Robotics*


*Markham, ON*

- Developed **15+** physical robotic components using OnShape to support team robot
- Lead a mechanical subteam of **5+** people to coordinate the robot's design in under 2 months
- Taught **100+** students CAD and OnShape fundamentals to through weekly workshops

## PROJECTS

---

**Wave** | *React Native, React.js, Typescript, Google Cloud APIs, XCode*

 [Project Link](#)

- Developed an iOS app helps seniors connect with each other in an interactive way
- Integrated **Google Cloud Translation API** to translate user input into **over 10** languages
- Utilized React Native Voice to transform user voice into text displayed on screen

**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 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 an application that processes **over 16000** Anime datasets
- Implimented Merge Sort and Linear Search to sort and search entry points
- Built application with a full Object-Oriented design
- Generated multiple graphs that adapt to user input and existing data

**Autonomous Car** | *Python, Raspberry Pi, HTML*

- Developed a controllable and autonomous car that reacts to its environment
- Designed a webpage using HTML that allowed for user-input to control the car
- Used photoresistors and ultrasonic sensors for odometry to calculate relative position

## EDUCATION

---

### University of Waterloo

Sept 2023 – Apr 2028

*Candidate for Bachelor of Applied Science in Computer Engineering*

*Waterloo, ON*

- President's Scholarship
- Relevant courses: Fundamentals of Programming, Project Studio, Linear Circuits, Digital Circuits