Stefan Tuczynski

✉ svtuczyn@uwaterloo.ca | in stefan-tuczynski | ⓞ stefantzn | ⊕ stefantuczynski.com

TECHNICAL SKILLS

Languages: Java, C++, Python, C, Verilog, VHDL, C#, HTML, CSS, JavaScript, TypeScript
Developer Tools: Vivado, React.js, React Native, Node.js, Next.js, Tailwind CSS, Git, VS Code, XCode, Unity
Technical: Arduino, Raspberry Pi, STM32, Tinkercad, Linux
Certifications: Verilog for an FPGA Engineer with Xilinx Vivado Design Suite (Udemy)

EXPERIENCE

Web Developer   Sept 2021 – Aug 2023
Crafting for a Cure   *Thornhill, ON*
- Updated website using Webflow and Embed JavaScript for requests by the charity founder
- Worked with the CEO of Infinidiv to discuss and implement changes made to the website
- Generated over **$1000** in donations through front-page interface changes

Design Lead   June 2021 – June 2023
FTC Team 19446 - Team Titans Robotics   *Markham, ON*
- Developed **15+** physical robotic components using OnShape to support team robot
- Lead a mechanical team of **5+** people to coordinate and build the robot in under 2 months
- Taught **100+** students CAD and OnShape fundamentals 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 **10+** languages
- Utilized the React Native Voice library to transform user voice into displayed text

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 an application that processes **over 16000** Anime datasets
- Implemented Merge Sort and Linear Search to sort and search entry points
- Generated dynamic graphs that adapt to user input using **object-oriented** principles

Autonomous Car | *Python, Raspberry Pi, HTML, VIM*
- Developed a controllable and autonomous car that reacts to its environment
- Designed user-friendly website that used **SSH protocol** to communicate to 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, Digital Circuits, Project Studio, Linear Circuits