NIKOLA ZUPANCIC

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EDUCATION

Queen's University   Kingston, ON, Canada
Bachelor of Applied Science; Computer Engineering   *September 2021 – April 2025*
- **Relevant coursework:** Computer Architecture, Data Structures, Algorithms, Object Oriented Programming, Microprocessors and Embedded Systems, Operating Systems, Computer Networks, Database Management Systems, Numerical Methods & Optimization
- **Awards:** Dean's Scholars Distinction 2022-2023, Queen's University Excellence Scholarship 2021

EXPERIENCE

Retail Associate   May 2022 - August 2022
Scarlett Gardens   *Toronto, ON*
- Helped customers by answering questions about plants
- Arranged plants in the Garden Centre based on new arrivals, current stock and climate

ACADEMIC PROJECTS

Engineering Design Project   January 2022 - April 2022
- Classified handwritten digits using ML algorithms **(CNN, etc)** with an accuracy of 97%
- Created a GUI in python using TKinter to guess drawn handwritten digits using specified ML algorithms

Arduino Engineering Design Project   September 2022 – December 2023
- Created a prototype pet collar that theoretically tracked the location and the heartbeat of a pet
- Acted as the leader of the group for decisions that were associated with **Arduino**

Mechatronics Project   Jan 2021 – Aug 2021
- Lead my group in designing a path finding rover for a University Course
- Wrote **C++** code for **Arduino** to path find, pick up a flag, and detect obstacles

PROJECTS

Personal Website | *CI/CD, Markdown, Hugo, Git, Cloudflare*   September 2023 – Present
- Created a personal website built with **Hugo** to showcase projects, my resume and contact info
- Deployed on Cloudflare pages via Github

GameBoy Emulator | *Rust, SDL2, Git*   June 2023 – Present
- A desktop app that emulates GameBoy Hardware including **CPU, Display, and Memory**
- Exercised **Bit Manipulation** techniques to decode cpu instructions

SBC server | *Linux, Docker*   July 2023 – Present
- A rockpro64 that is running **docker** on **debian-aarch64** to host a NAS

TECHNICAL SKILLS

Languages: C/C++, Rust, Python, Java, Assembly, Bash, VHDL, HTML/CSS, Markdown, SQL
Libraries: SDL2, Raylib, OpenGL, TKinter
DevOps: Git, Docker
Tools: Linux, QEMU/KVM, Cloudflare, VS Code, Android SDK
Hardware: Arduino, FPGAs, SBCs, Soldering, PCs