

Tyler Warwick

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TECHNICAL SKILLS

Languages: Typescript/JavaScript, C/C++, Java, Python, HTML/CSS, SQL, .NET, MATLAB, VHDL
Frameworks: React, Node.js, Express, Tailwind CSS, MongoDB
Software/Development Tools: SolidWorks, AutoCAD, Git
Operating Systems: Linux, MacOS

EXPERIENCE

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| Data Analyst
<i>Community Living Wallaceburg</i> | May 2023 – Sept. 2023
<i>Wallaceburg, ON (Hybrid)</i> |
| <ul style="list-style-type: none">Integrated data from online sources via a RESTful API, resulting in a 75% reduction in manual entry, 95% improvement in data accuracy.Developed scripts for automated data cleaning, categorization, and formatting, leading to a 50% reduction in analysis time and a 60% improvement in report generation speed.Utilized JavaScript to optimize form behaviour to effectively reduce human error and false submissions by 40%. | |
| Product Developer and Fulfillment Manager
<i>The Happy Era</i> | Jan. 2022 – April 2022
<i>Guelph, ON (Remote)</i> |
| <ul style="list-style-type: none">Developed a website using a content management system (CMS), skillfully integrating tailored HTML and CSS modifications to perfectly match the employer's criteria.Orchestrated a successful social media campaign that generated a 30% surge in website traffic and a 25% growth in followers across various platforms.Led independent research and development of a dry baking mix, directly contributing to a 15% increase in revenue. | |

PROJECTS

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| Digit Recognition Network <i>Python, NumPy, Linear Algebra</i> | Aug 2023 – Sep. 2023 |
| <ul style="list-style-type: none">Engineered a neural network without the use of libraries, employing linear algebra principles to achieve a 90% accuracy in recognizing handwritten digits.Conducted benchmarking of accuracy and computation time, encompassing diverse activation functions (ReLU, Sigmoid), optimization techniques (Batch Gradient Descent and Stochastic Gradient Descent), and hyperparameters (number of nodes and mini-batch size) ensuring optimal model performance. | |
| StudyBuddy <i>Typescript, Tailwind CSS, React, Express, MongoDB</i> | May 2023 – Aug. 2023 |
| <ul style="list-style-type: none">Designed a web application serving as an active recall-based memorization tool, enhancing learning outcomes through effective retrieval practice and fostering optimized information retention.Developed a full stack application by seamlessly integrating Express and a REST API to serve a React frontendImplemented a secure authentication system featuring encryption using JSON Web Tokens (JWT).Employed Tailwind CSS to craft a responsive frontend that dynamically adapts to various devices. | |
| Autonomous Car <i>C/C++, Circuitry</i> | Sep. 2022 – Dec. 2022 |
| <ul style="list-style-type: none">Led end-to-end development of an autonomous car using a microcontroller, seamlessly integrating sensors, DC motors, and applying mechanical engineering principles for optimal performance.Designed and prototyped breadboard circuits, optimizing electronic connections and ensuring reliable performance of the car's components.Experimented with integrating a variety of sensors, including ultrasonic and infrared to enable obstacle detection and line following. | |

EDUCATION

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| University of Guelph
<i>Bachelor of Engineering, Engineering Systems and Computing (Co-op) (4.0 GPA)</i> | Guelph, ON
<i>Sept. 2022 – Present</i> |
| <ul style="list-style-type: none">Completed coursework in systems analysis, control theory, digital system design, computer organization, and electric circuits.Executive member of AI club, fostering collaboration and exploring advanced topics in artificial intelligence. | |