

# Nathan Card

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## EDUCATION

### University of York

York, UK

*Master of Science in Computer Science: Artificial Intelligence*

May 2023 – May 2025

- Relevant Coursework: Artificial Intelligence and Machine Learning, Advanced Data Structures and Algorithms, Applied Artificial Intelligence, Big Data Analytics, Advanced Programming Techniques, Software Engineering.

### Trent University

Peterborough, ON

*Bachelor of Arts Honours in History*

Sept. 2010 – May 2015

## EXPERIENCE

### Student Tutor

October 2023 – Present

*University of York*

York, UK

- Facilitated weekly tutoring sessions for CS students, leading to a 25% improvement in their projects.
- Reviewed code, debugged issues, and provided constructive feedback to help students improve their programming skills and project deliverables.
- Demonstrated strong communication and interpersonal skills in facilitating discussions and fostering collaborative learning environments.

### Head of Operations/Co-Founder

May 2015 – Sept. 2023

*Wild Card Brew Co.*

Trenton, ON

- Led a successful exit of the company to a strategic buyer in 2023.
- Managed a team of 6 employees to launch a beverage & merchandise company that achieved Province-wide distribution and started an e-commerce store in 2019.
- Fostered a collaborative and mentorship-focused approach when working in teams of all sizes to build organizational capacity.

## PROJECTS

### Generative AI Prompt Generator | *Python, Langchain, Streamlit, Ollama*

Mar. 2024 – Present

- Developed a Python-based program to refine and optimize prompts using natural language processing.
- Integrated Langchain's language model capabilities to fine-tune the prompt generation process.
- Designed a user-friendly interface for seamless prompt input, output, and iterative refinement.
- Documented the program's architecture, functionality, and usage guidelines for easy maintenance and future enhancements.

### Pomodoro Timer | *Rust, Next.js, Tauri*

Nov. 2023 – Jan. 2024

- Developed a cross-platform Pomodoro timer application using Tauri for full functionality on macOS and Windows.
- Utilized Rust for the backend, capitalizing on its performance and reliability, and integrated it with Next.js.
- Implemented the Pomodoro method, including work intervals and breaks, to help users boost productivity levels.
- Crafted a user-friendly interface with intuitive controls, visual timers, and customization options to cater to individual user preferences.

### British Radio Tower Tracker | *Python, Seaborn, NumPy, Pandas, Matplotlib*

Sept. 2023 – Dec. 2023

- Built a robust data extraction and processing pipeline to track 180+ British radio towers, leveraging Python's capabilities for large datasets.
- Implemented data validation and error-handling mechanisms to ensure the integrity and reliability of the radio tower information.
- Designed data visualizations using Seaborn and Matplotlib, enabling users to easily interpret and analyze the radio tower data with a proven accuracy of 95+%.
- Applied Agile project methodologies to manage all communications, dependencies, and milestone attainment within the project deadline.

## TECHNICAL SKILLS

**Languages:** Python, SQL (Postgres), JavaScript, HTML/CSS, Rust, Java

**Frameworks:** PyTorch, React, Node.js, TailwindCSS, FastAPI, Langchain, Ollama

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, Seaborn, Streamlit, Tauri