

M Nashat Yafi

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EDUCATION

David And Mary Thomson Collegiate Institute

Ontario Secondary School Diploma, Advanced Placement Program, ICT SHSM

Scarborough, ON

2026

PROJECTS

Lead Software Engineer

January 2024 – September 2024

Highlight C3

Remote

- Standalone project utilizing United Nations Food And Agriculture Organization data to predict future trends via algorithms
- Using AI to help summarize future predictions and past calculations in an easy-to-read format for audiences with limited technical knowledge, allows for a better understanding of global events and situations involving heightened topics i.e. world hunger, civil turmoil and political crises
- Shifting to complex trend-seasonality models for better data predictions and future analytical estimates

Technologies: Next.js, Express.js, Python, TypeScript, PostgreSQL

Lead ML Engineer

November 2024 – Present

Mother C1

Remote

- An LSTM-Based Deep Neural Network that is able to predict food prices for any country
- Has the ability to predict regardless of currency, by scaling based on the min-max values of the current year in order to still be able to predict in the event that local currency exchange is not available
- Exported to ONNXRuntime for efficient and quick inferencing of the models in high performance environments
- Has two variants with another planned

Technologies: Python, PyTorch, pandas, numpy, ONNXRuntime, scikit-learn

Lead Software Engineer

September 2024 – Present

OpenACHES

Remote

- A data centralization server that allows aggregating data related to humanitarian events from multiple sources at once
- Currently supports UNOCHA's Humanitarian Data Exchange as well as support for manipulating datasets via the Humanitarian Exchange Language tags
- Ongoing development to discover and support more providers
- Used by other applications like Mother C1

Technologies: TypeScript, Python, Express.js, FastAPI, pandas

EXTRACURRICULARS

University of Waterloo Canadian Computing Competition

2023

Codeforces Round 955 Division 2

2023

Educational Codeforces Round 167 Division 2

2023

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, C#, Java, Assembly, SQL (PostgreSQL), HTML/CSS

Frameworks: Next.js, Express.js, FastAPI, Svelte, Node.js, Bun, PostgreSQL, Shadcn/ui, Aceternity UI, React.js

Development and General Tools: Git, Github, Docker, Visual Studio Code, Microsoft Visual Studio, Google Cloud, Oracle Cloud, MongoDB, Firebase, Supabase, Eclipse IDE, Metasploit Framework, Burp Suite

Libraries: PyTorch, Hugging Face, ONNXRuntime, NVIDIA CUDA Toolkit, NVIDIA TensorRT SDK, NumPy, pandas, scikit-learn