NATHAN SKIBICKI

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Experience

Data Analyst
January 2025 – May 2025

Mitsubishi Heavy Industries — *Mississauga, Ontario*

- Engineered optimized data processing pipeline with **pandas**, **numpy**, **openpyxl**, and **tqdm** for real-time compilation analysis, achieving **98%** runtime reduction and significantly enhancing operational throughput.
- Developed aircraft maintenance prediction system using **PyTorch** with multi-variable linear regression (aircraft age, flight cycles, flight hours), reducing unnecessary maintenance costs by **$2,000+** per check while flagging critical aging components.
- Constructed automated data pipelines with **Python**, **Flask**, and **SQL** that decreased processing time by **63%** and delivered real-time prediction dashboards to maintenance teams.

Full Stack Developer
May 2024 – December 2024

Mitsubishi Heavy Industries — *Mississauga, Ontario*

- Architected high-performance airline dashboard application using **JavaScript**, **ReactJS**, **Redux** and **Flask** with **Azure SQL** integration, generating **$27,000** annual revenue.
- Optimized existing Power BI application infrastructure, resulting in **80%** resource cost reduction through enhanced architecture and query optimization.
- Created an automated script to systematically reorganize and structure historical airline data, streamlining data management processes.
- Built optimized **Flask** API endpoints with custom **SQL** views for data retrieval, reducing dashboard load times by **85%** and enabling seamless real-time user interactions.

Programming Instructor
June 2023 – August 2023

Ultimate Coders — *Markham, Ontario*

- Mentored multiple students in **Arduino**, **Python**, and **Javascript**.
- Adapted teaching strategies and resources according to student progress.
- Offered constructive feedback and personalized assistance to empower students in attaining their learning objectives.

Projects

HealthMate (Hack Western) ⭘ *TensorFlow, Next.js, Tailwind CSS, JavaScript, CSS/HTML, JSX*   November 2023

- Created a digital health assistant using **TensorFlow** for real-time posture tracking and **Next.js** frontend with **Infobip** API integration for productivity-enhancing notifications.

Inventory Management Service ⭘ *Python, Redis, gRPC*   October 2023

- Engineered a thread-safe inventory management system using **Python** with **gRPC** for client-server communication and **Redis** for efficient data storage and retrieval.

Prodigy Programmers ⭘ *JavaScript, React.js, Node.js, MongoDB, Express.js, Axios, Vercel*   March 2024

- Built a comprehensive tutor signup platform using the **MERN** stack that successfully onboarded tutors and students, generating substantial revenue for my tutoring business.

Sustainify (HacktheValley) ⭘ *Flask, React, OpenAI API, Tailwind CSS, Firebase, JavaScript, CSS/HTML*   Oct 2023

- Created a web app that tracks and reduces users' carbon footprint through AI-driven recommendations, using **React** frontend, **Firebase** for data storage, and **OpenAI API** for personalized eco-advice.

Education

Western University
September 2021 – May 2026

Bachelor of Science, Computer Science Specialization — *London, Ontario*

Technical Skills

Languages: Python, Java, C, C++, C#, HTML/CSS, JavaScript, R, SQL
Developer Tools: Confluence, Jira, Amazon Web Services, Netbeans, Adobe Experience Manager, Sourcetree, Git, Linux, Unix, Github, MS Azure, PowerBI, Azure SQL
Frameworks and Libraries: React.js, Redux, MongoDB, Express.js, Axios, NumPy, Matplotlib, Pandas, spaCy, Node.js, Scikit-learn, Tailwindcss, Tensorflow, Infobip API, Flask, PyTorch, openpyxl, tqdm
Testing: Postman, JUnit