# Nathan Skibicki

Toronto, Ontario

📞 647-568-7892 ✉ nathans.skibicki@gmail.com 🔗 Linkedin 🌐 Website ⚫ Github

## Experience

### Data Analyst
**January 2025 – Present**

*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 **React.js**, **Redux** and **Flask** with **Azure Data Studio** integration, successfully sold to two airline operators generating **$27,000** in annual subscription revenue.
- Optimized existing **Power BI** application infrastructure, resulting in **80%** resource cost reduction through enhanced architecture and query optimization.
- Built optimized **Flask API** endpoints with custom **SQL** views for data retrieval, reducing dashboard load times from **6 minutes** to **2 seconds** and enabling seamless real-time user interactions.
- Generated an automated script to systematically reorganize and structure historical airline data, streamlining data management processes.

### 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) ⚫ *React.js, TensorFlow, Next.js, Tailwind CSS*
**November 2023**

- Built 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.

### University Map Application ⚫ *Java, Swing, JSON, MVC Architecture*
**October 2023**

- Developed an interactive campus navigation system with dynamic POI management, custom filtering, and admin functionalities that enables users to efficiently locate and bookmark campus resources.

### R swap ⚫ *React.js, OpenAI API, Tailwind CSS, Firebase*
**April 2025**

- Developed Resume Swap, an AI-powered resume tailoring application that analyzes job descriptions and generates tailored **LaTeX** resumes, increasing job response rates by **50%**.

## 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