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Michael Ferreira
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Education

Waterloo, ON, Canada	University of Waterloo	2025 – 2030
Waterloo, ON, Canada	Wilfrid Laurier University	2025 – 2030

Technical Skills

- Languages: Python, Javascript, HTML/CSS, Typescript, Racket, C
- Technologies: Node.js, pygame, React.js, Next.js, pandas, scikit-learn, matplotlib, Supabase, PostgreSQL

Work Experience

Software Engineering Intern	LocalReach	Nov 2024 – Mar 2025
	<ul style="list-style-type: none">• Collaborated with a team to build and maintain the company website using TypeScript and Next.js• Contributed to the development of a computer vision AI system designed for real-time recognition on in-store TV displays; technology was sold to TAIV (YC W20)• Gained hands-on experience in building production-grade software under tight deadlines, with a focus on adaptability and rapid iteration	

Charity CEO and Lead Developer	Baobab	Dec 2024 – Aug 2025
	<ul style="list-style-type: none">• Designed and developed the Baobab website using TypeScript, React, MongoDB, and Next.js, creating a seamless user experience for charities and donors• Conducted outreach with local charities to onboard partners, understand their needs, and tailor Baobab's platform to maximize community impact, getting over 10 charities on the platform• Led a cross-functional team, overseeing project timelines, technical development, and decision-making	

Projects

Baobab Charity Website	https://github.com/michaeljf07/baobab-website
	<ul style="list-style-type: none">• Built a full-stack web application using TypeScript, React, Next.js, and MongoDB, with a responsive, grid-based layout and dynamic routing• Developed user authentication and account management with secure session handling• Implemented a charity wishlist system allowing real-time updates and direct item tracking• Designed and connected MongoDB databases to efficiently store user and charity data• Integrated modular, reusable React components to support scalability and fast feature iteration

Forex Predictor

<https://github.com/michaeljf07/forex-predictor>

- Built an **ML pipeline** predicting forex movements using **Python** and scikit-learn; engineered 90+ features from technical indicators (RSI, MACD) and market data (equities, commodities, bonds)
- Trained **Random Forest** and **Gradient Boosting models** with time-series cross-validation, achieving R^2 of 0.84 on EUR/USD next-day returns
- Automated data collection and created visualization suite for model evaluation

Sublet Centre

<https://github.com/michaeljf07/sublet-centre>

- Designed and built a **full-stack web platform** to streamline student subletting, using **Next.js**, **TypeScript**, and **Tailwind CSS** for a modern, responsive frontend
- Implemented secure authentication and account management with Supabase-Auth
- Created a scalable database using **Supabase** to manage listings, users, and availability data
- Developed dynamic listing and search functionality with **server-side rendering and API routes**, optimizing performance and **SEO**

Skills

- Problem-solving, Communication, Leadership, Teamwork, Critical thinking, Programming

References Available Upon Request