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Michael Ferreira
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Education

Waterloo, ON, Canada	University of Waterloo	2025 – 2030
<ul style="list-style-type: none">Bachelor's in Computer Science (BCS)		

Waterloo, ON, Canada	Wilfred Laurier University	2025 – 2030
<ul style="list-style-type: none">Bachelor's in Business Administration (BBA)		

Technical Skills

- Languages: Python, Javascript, HTML/CSS, Typescript, Racket, C
- Frameworks and Libraries: Node.js, pygame, React.js, Next.js, pandas, scikit-learn, matplotlib

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.jsContributed 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 2018)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 donorsConducted 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 platformLed 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 routingDeveloped user authentication and account management with secure session handlingImplemented a charity wishlist system allowing real-time updates and direct item trackingDesigned and connected MongoDB databases to efficiently store user and charity dataIntegrated modular, reusable React components to support scalability and fast feature iteration	

Forex Predictor	https://github.com/michaeljf07/forex-predictor
<ul style="list-style-type: none">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 returnsAutomated data collection and created visualization suite for model evaluation	

Atari Centipede Clone	https://github.com/michaeljf07/centipede
<ul style="list-style-type: none">Built a Centipede arcade game clone using Python and PygameDeveloped responsive keyboard controls and game state managementApplied modular code structure for easy feature expansion	

Skills

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

References Available Upon Request