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**Michael Ferreira**  
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## Education

<b>Waterloo, ON, Canada</b>	<b>University of Waterloo</b>	<b>Sept 2025-2030</b>
<ul style="list-style-type: none"><li>Bachelor's in Computer Science (BCS)</li></ul>		
<b>Waterloo, ON, Canada</b>	<b>Wilfred Laurier University</b>	<b>Sept 2025-2030</b>
<ul style="list-style-type: none"><li>Bachelor's in Business Administration (BBA)</li></ul>		

## Employment

<b>Software Engineering Intern</b>	<b>LocalReach</b>	<b>Nov 2024 – Mar 2025</b>
<ul style="list-style-type: none"><li>Collaborated with a team to build and maintain the company website using TypeScript and Next.js</li><li>Contributed to the development of a computer vision AI system designed for real-time recognition on in-store TV displays</li><li>Gained hands-on experience in building production-grade software under tight deadlines, with a focus on adaptability and rapid iteration</li></ul>		
<b>Charity CEO and Lead Developer</b>	<b>Baobab</b>	<b>Dec 2024 - Present</b>
<ul style="list-style-type: none"><li>Designed and developed the Baobab website using TypeScript, React, MongoDB, and Next.js, creating a seamless user experience for charities and donors</li><li>Conducted outreach with local charities to onboard partners, understand their needs, and tailor Baobab's platform to maximize community impact</li><li>Led a cross-functional team, overseeing project timelines, technical development, and decision-making</li></ul>		
<b>Camp Counsellor</b>	<b>City of Toronto</b>	<b>June 2021 – Present</b>
<ul style="list-style-type: none"><li>Collaborated with other counsellors to coordinate camp-wide events, ensuring smooth logistics</li><li>Led and supervised groups of children in daily activities, fostering a fun, inclusive, and safe environment</li><li>Acted as a role model and mentor, providing guidance, conflict resolution, and support to campers</li></ul>		

## Projects

### Baobab Charity Website

<https://github.com/michaeljf07/baobab-website>

- 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

### Atari Centipede Clone

<https://github.com/michaeljf07/centipede>

- Built a Centipede arcade clone using **Python** and **Pygame**
- Developed responsive **keyboard controls** and game state management
- Applied **modular code structure** for easy feature expansion

### Stock Ticker Game

<https://github.com/michaeljf07/Stock-Ticker>

- Recreated the Stock Ticker board game using **Python** and **Pygame**
- Designed a **graphical interface** to display stock fluctuations and player assets
- Structured code for scalable game state management and smooth UI updates

## Technical Skills

- Languages: Python, Javascript/HTML/CSS, Typescript
- Frameworks and Libraries: Node.js, Pygame, React.js, Next.js, Pandas