

# JACOB FU

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## EDUCATION

### University of Waterloo

(BCFM) Computer Science and Finance – 3.85 GPA

Awards: Robert Harding Entrance Scholarship (\$5000), President's Scholarship of Distinction (\$2500)

2024 - 2029

Waterloo, ON

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Java, HTML/CSS

**Frameworks:** React, Node.js, Next.js, Express.js

**Tools:** Git, VS Code, Figma

**Libraries:** Pandas, NumPy, Matplotlib, yfinance

## EXPERIENCE

### Associate

Sep 2024 – Present

Non-Profit Organization Consulting (NPOC)

Waterloo, ON

- Conducting in-depth research to deliver actionable insights, driving strategic decision-making for clients.
- Developing a full-stack **Next.js** website for NPOC to improve online visibility and streamline client application process.

### Digital Design Intern

Jun 2024 – Sep 2024

1000 Islands Gananoque Chamber of Commerce

Gananoque, ON

- Redesigned website to improve usability and design, increasing **weekly visitors by 65%** and **session duration by 120%**.
- Created and designed **50+ social media assets**, using **Adobe Photoshop** and **Canva** to support marketing campaigns.
- Edited high-quality promotional social media videos using **Adobe Premiere Pro**, driving **500+ impressions per video**.

### IT Solutions Intern

Sep 2023 – Feb 2024

Weehoey Inc.

Kingston, ON


- Developed a web-app using **JavaScript** and **HTML/CSS** to calculate client employee bonuses, used by **100+ employees**.
- Improved Weehoey's server maintenance script by automating the delivery of server analytics to IT using **PowerShell**.
- Managed **30+ client servers'** system and security health, proactively identifying and resolving potential issues.

### Indie Game Developer

Jun 2019 – Apr 2022

Metro Apocalypse (Self-employed on modd.io)

Kingston, ON

- Developed a multiplayer zombie-tag .io game using **modd.io**, **HTML/CSS**, and **JavaScript**.
- Amassed **200+ concurrent players**, **4.2M+ total plays**, **250K+ unique players**, and reached virality with **570k+ views** .
- Implemented monetization through **Patreon subscriptions** and **micro-transactions**, ultimately generating **over \$2,500**.
- Led a team of **3 developers** to deliver weekly content updates including new maps, items, and gameplay features.

## PROJECTS

### MelodyMatch | JavaScript, HTML/CSS, Next.js, Express.js, React —

- Built a full-stack web app integrating **Spotify** and **OpenAI APIs** to analyze two users' musical compatibility.
- Leveraged AI to generate personalized song recommendations to help users explore each other's music tastes.

### AnonAlyze | JavaScript, HTML/CSS, Next.js, Express.js, React —

- Won **Best Security Hack** at York University's **CTRL+HACK+DEL Hackathon**.
- Developed a full-stack web app using **OpenAI API** and **Apify API** to analyze a user's social-media online security.

### Robo Investment Portfolio Advisor | Python, Pandas, NumPy, yfinance —

- Built a program to recommend high-risk, high-reward stock portfolios based on a list of stocks.
- Developed a Python algorithm to effectively identify stocks with a high likelihood of outperforming the market.
- Cleaned and processed historical stock data using **Pandas** and **NumPy** before analysis.

### Novel Novels | JavaScript, HTML/CSS, React, Figma —

- Built a full-stack web app that converts novels into picture books using images generated by **Pollinations AI**.
- Designed the website's user interface using **Figma**, ensuring a visually appealing, user-friendly layout before development.