Jacob Fu

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EDUCATION

University of Waterloo Sep 2024 - Jun 2029
Bachelor of Computer Science and Finance (BCFM) – GPA: 3.95 *Waterloo, ON*
Awards: Robert Harding Entrance Scholarship ($5000), President's Scholarship of Distinction ($2500)

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS
Frameworks: React, Next.js
Libraries: Pandas, NumPy, Matplotlib, yfinance

EXPERIENCE

Non-Profit Organization Consulting (NPOC) Associate Sep 2024 – Present
University of Waterloo *Waterloo, ON*
- Developing **data-analytic tools** for clients, including **advanced budget management** and **forecasting models** to optimize financial decision-making and resource allocation.
- Utilizing **social media data analytics** to extract actionable insights, helping clients boost their brand visibility and engagement across key platforms.
- Designing and developing a **full-stack website** for NPOC, enhancing online presence and providing a user-friendly interface for client interactions and internal team collaboration.

Digital Multimedia Designer Jun 2024 – Sep 2024
1000 Islands Gananoque Chamber of Commerce *Gananoque, ON*
- Completely redesigned their outdated website to improve usability visual appeal, and site performance and responsiveness, resulting in a **65% increase** in weekly unique visitors, and **120% increase** in session duration
- Produced high-quality digital and print assets for large-scale events using Adobe Photoshop and Canva
- Edited promotional social-media videos to garner **500+ impressions per video** using Adobe Premiere Pro
- Conducted data analysis on daily social-media metrics to refine design and content strategies, optimizing for audience reach and engagement.

IT Solutions Intern Sep 2023 – Feb 2024
Weehooey Inc. *Kingston, ON*
- Developed and designed a web application for Alliance Security Team, using **JavaScript** and **HTML/CSS** to calculate employee bonuses based on personal performance statistics, improving their HR's efficiency by automating calculations.
- Implemented an automated feature in Weehooey's server maintenance script using **Windows PowerShell**, streamlining the process of sending server data and statistics for analysis.
- Monitored **30+ client servers**' health by regularly checking system performance, resource utilization, and security configurations, proactively identifying and resolving potential issues.

PROJECTS

AnonAlyze | *JavaScript, Next.js, React, HTML/CSS*
- Won **Best Security Hack** at York University's **CTRL+HACK+DEL Hackathon**
- A security-first app that scans public Instagram data to reveal sensitive info you might be unknowingly sharing. Get a privacy score and tips to boost your digital security instantly.

Data-Driven Stock Selector Program | *Jupyter Notebook, Python, Pandas, NumPy, yfinance*
- Developed a Python stock-selector app that leverages data analytics and historical trends.
- Implemented data extraction from financial APIs, enabling real-time analysis and backtesting of stock performance.
- Applied statistical models and custom algorithms to rank stocks based on factors like momentum, volatility, and financial ratios.

Finance Portfolio Simulator and Analytics | *Python, Pandas, NumPy, Matplotlib*
- Designed a program to simulate portfolios, conduct historical data analysis, and perform statistical calculations to assess portfolio performance.
- Visualized data to demonstrate the effects of margin, exchange rates, diversification, and risk management.

Metro Apocalypse | *JavaScript, HTML/CSS*
- Developed a zombie-tag survival multiplayer game using modd.io, attracting **200+ concurrent players** and amassing over **4.2 million total plays** with **250,000+ unique players**.
- Monetized through a subscription-based model, generating over **$1,800 CAD** and securing **70+ active subscribers** via Patreon, offering exclusive in-game perks.
- Built and nurtured an engaged community on Discord, growing a server of **1,600+ members**, fostering player interaction and event participation.