

# Johan Naresh

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## EDUCATION

### University of Waterloo

Computer Science and Finance Double Major, Bachelor of Computing and Financial Management (Honours Co-op)

- GPA: 3.94/4.00
- Awarded *President's Scholarship of Distinction* for academic excellence upon admission

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, JavaScript, TypeScript, HTML/CSS, C++, Dart, Java

**Frameworks & Libraries:** React, Next.js, Pandas, TensorFlow, Keras, BeautifulSoup, yfinance, finBERT

**Tools & Platforms:** Git, Firebase, Google Workspace APIs, LLM APIs, Selenium Stack, Vercel, Claude Code CLI, Excel

**Interests and Hobbies:** Competitive E-sports, Grilling, Aviation, Astronomy, Cricket, Teaching, Billiards

## EXPERIENCE

### Full Stack Engineer

Apr 2025 - Present

*Marble Investments*

- Built **asynchronous Python pipelines** to acquire, filter, and normalize a NASDAQ/NYSE equities dataset, standardizing market cap, diluted EPS, and analyst estimates, reducing acquisition time by **80%**.
- Designed **MongoDB architecture** to store and update key financial metrics (PE, revenue, profit margins), enabling rapid retrieval for research and dashboard integration.
- Developed **Next.js + TypeScript** internal dashboard with live data feeds for real-time portfolio analytics & quantitative screening

### Lead Web Developer

Oct 2024 - Apr 2025

*Opportunities HQ*

- Developed end-to-end opportunity discovery platform with full-stack architecture using **HTML/CSS/JS**.
- Implemented dynamic filters and persistent local bookmarks using JSON and **localStorage** for fast program discovery.
- Integrated **SEO analytics** via **Google Search Console** and real-time user tracking with GoatCounter.

### Executive of Operations

Jun 2024 - Jul 2025

*CMHQ*

- Lead partnership and outreach efforts for youth-led NPOs, increasing funding for YLNPOs by up to **30%** through strategic partnerships with Microsoft, Google, and Movember.
- Developed verification infrastructure and improved onboarding workflows for **20+** nonprofit organizations.

### Head of Journalism and Staff

May 2024 - Aug 2025

*Career Compass Coalition*

- Grew Google Classroom userbase from **1,000** to **17,500+** students, alongside **24,000+** social media followers.
- Managed editorial pipeline for **14** student writers, leading survey-driven newsletter production.
- Built and deployed the organization's first centralized web resource using modern static architecture.

## PROJECTS

### Real-Time Gym Rep Counter | C++, vcpkg, serial I/O, Node.js, WebSockets, Supabase, HTML/CSS/JavaScript

- Integrated accelerometer and gyroscope sensor streams via **C++** modules for low-latency rep counting, using vcpkg-managed libraries to process live motion data from serial ports.
- Built a full-stack pipeline where a **Node.js** server ingests a live stream of **JSON**-formatted sensor data and relays it over **WebSockets** to a responsive HTML/CSS/JavaScript dashboard backed by **Supabase**, displaying live counts, timers, and session metrics with camera feed support and **computer-vision** features.

### News Sentiment Analyzer | FinBERT, yfinance, BeautifulSoup, Excel

- Scraped and sentiment-scored financial headlines to generate tradable signals.
- Backtested strategy yielding **39%** ROI with Excel dashboards using RSI, ADX, ATR technical indicators.

### Revision Tracker App | Python, Tkinter, Google Sheets API, Streamlit, localStorage

- Built desktop study tracker with GUI timer and Google Sheets-synced session logs.
- Linked front-end to real-time spreadsheet updates; logging study hours via GUI-based timer and interval triggers.
- Resolved **browser timer throttling** with localStorage-based session recovery and interval guard logic.

### Contact Scraper Bot | Python, Selenium, regex, pandas, ChromeDriver/webdriver-manager

- Extracted and validated leads from dynamic web pages with robust parsing rules
- Integrated ChromeDriver with **webdriver-manager** for portable deployment and stable version matching.
- Converted raw HTML dumps into structured contact tables for export

### Finalist – Mobile App Competition | Dart, C++, CMake, Swift, Gemini API

- Built Android ESG-scoring app with barcode/photo/text input and on-device inference.
- Integrated **Google Gemini API** and real-time user preference storage via localStorage.
- Added appearance customization and persistent local caching to save theme and previously scored products across sessions.