Barry Paul

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EDUCATION

University of Western Ontario — London, ON, Canada
Bachelor of Science, Honours Specialization in Computer Science — *Expected Graduation 2027*
- **Honours:** Advanced Entry Opportunity to Ivey Business School (2025), Western Scholarship of Distinction ($2,500), (1/36) Toronto McKinsey Challenge 2025 Participant, Most Innovative Product – Accenture Product Design Sprint

TECHNICAL SKILLS

Languages: HTML, CSS(SCSS), JavaScript/Typescript, Java, Python, SQL, C#, C++, R, Kotlin, Swift (IOS)
Frameworks & Libraries: React, Next.js, Node.js, jQuery, Bootstrap, Spring Boot, Django, Flask, Redux, Angular
Data & Tools: UNIX, Docker, Firebase, MongoDB, MySQL, Git, pandas, Amazon Web Services, Power BI, Microsoft Azure

EXPERIENCE

Sherpa° — Toronto, Canada
Software Engineer Intern — *Summer 2025*
- Scheduled to complete a 16-week internship at a **15mm Series A start-up** on the Product Development team
- Developed an AI-powered system using **Google Gemini** to interpret and contextualize **automation errors (e.g., 500 errors, GCP logs)** into clear, actionable insights, **cutting down response times and operational overhead by 20%**
- Building an **AI headshot quality assurance** by integrating Vertex AI and Google Vision APIs to **reduce photo failure rates** through ML-driven analysis and customer-facing soft blocks - projected to improve first-time accuracy and **minimize manual intervention by Customer Operations**

Propel Holdings (TSX: PRL) — Toronto, Canada
Software Developer Intern — *May 2024 - August 2024*
- Developed the **Agent Tool Kit** by consolidating tools, customer data, and product information into an internal web application using **ReactJS** and **REST APIs** resulting in a **30% improvement in workflow efficiency** for service agents
- Redesigned user on-boarding and dashboard UI on 5 subsidiaries web apps using **TypeScript, for 30,000+ users**

Bagel AI — Toronto, Canada
Tech Consulting Lead (The Aleph Group) — *Sept 2023 - present*
- Formulated **Go-To Strategy** for **10mm** VC backed start-up developing an AI assistant (**Google Accelerator Program**)
- Led a **competitive analysis** by benchmarking emerging AI players, evaluating **market positioning**, & assessing **performance metrics**; Translated findings into **actionable business strategies**, positioning for competitive advantage
- Analyzed various market strategies, in the North American and European **sports AI industry** to develop a **digital strategy** that **increased social media engagement by 80% and pre-launch signups by 40%** *(Prev. Lab3)*

HotTakes Sports — Toronto, Canada
Product Manager Intern — *April 2024 - August 2024*
- Developed and launched the **HotStreaks** feature, a rewards system that boosted **user engagement and retention by 4x**
- Formulated a US Market Expansion strategy by conducting a Total Addressable Market Analysis, Market Gap Analysis, and Competitor Landscape Analysis; advised to launch in 7 states resulting in **500+ App Store downloads** and **1k+ revenue**

W5 - Western Entrepreneurship — London, Canada
Vice-President of Development — *Sept 2023 - present*
- Hosted **2 new initiatives**, securing 8 start-ups & 16 panelist for 100+ participants: Careers Panel & Internship program
- Orchestrated 2 firms trip for 90 students by heading logistics planning and outreach to McKinsey, National, and Deloitte

PROJECTS

LiteTrade | `ReactJS, TailWindCSS, Python, Flask, MongoDB, yfinance`
- Engineered a **real-time stock trading platform** using Flask, and MongoDB, featuring market data through the **yfinance API**; Portfolio management system with **live position tracking**, **daily returns**, and **all-time performance metrics**
- Implemented a **RESTful API** with endpoints for portfolio management, trade execution, and market data retrieval, handling 500+ stocks; Built a **caching system** for stock prices using MongoDB to **optimize API calls** and improve response times
- Built a responsive React frontend with Tailwind CSS, featuring dynamic stock tables, charts, and real-time portfolio updates

bitesy | `React Native, JavaScript, Django, Google Cloud Platform, Gemini, Expo`
- App that calculates calories per meal from photos taken on mobile using VertexAI and Google Gemini API, displaying uploaded photos on a React-Native and Expo front-end created using JavaScript and CSS; BeReal & MyFitnessPal in one

ADDITIONAL INFORMATION

Interests: Basketball, Hackathons, Poker, Pokémon, Reading (Fiction), Running (10km), Travelling (Singapore)