

Noah Bradwin

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SKILLS

- **Programming:** Python, HTML, VBA, Java, PostgreSQL, API usage, VS Code, Pytorch.
- **Software:** Excel (advanced), Power BI, PyCharm, pgAdmin, Microsoft Suite, Git, WSL Ubuntu, Jupyter.
- **Certificates:** IBM Python for Data Science, AI & Development.
- **Knowledge:** OOP, sorting algorithms, linked lists, stacks, queues, binary trees, UML, combinatorics, regression analysis.

PROJECTS

- **Linear Programming Calculator:** Designed and built a Python-based linear programming calculator for supply chain optimization, applying linear algebra to model constraints, solving complex optimization problems, and supporting data-driven decisions.
- **Financial Planning Tool:** Built an automated financial planning tool using Excel VBA that incorporated a dynamic budgeting system, integrated user feedback, and generated a visually oriented dashboard for real-time financial tracking and analysis.
- **Logistics Analytics Pipeline:** Built end-to-end data solution with PostgreSQL database (300K+ records), Python ETL pipeline, and Power BI dashboard using star schema and role-playing dimensions to analyze delivery performance and driver efficiency metrics.
- **Zenly – Figma Prototype:** Designed an interactive Figma prototype with a team for “Zenly” a study-support app aimed at improving student productivity through timed focus sessions, distraction blocking, and adaptive practice problem generation based on user study patterns.

EDUCATION

University of Waterloo

Waterloo, Ontario, Canada

Candidate for Honours Management Engineering, Co-op

Academics: 3.98/4.00 Cumulative GPA (92.8% Cumulative Average)

Scholarships & Awards:

- **G.C.V.I. -P.D. Robinson Award:** Graduating student with outstanding achievement in both academics and athletics.
- **University of Waterloo President's Scholarship of Distinction:** Awarded for admission average above 95%.
- **Shoukry Saleh Memorial Scholarship for Management Engineering:** Awarded to an exceptional incoming first-year student demonstrating strong potential for excellence in Management Engineering.

EXPERIENCE

Swim Instructor & Coach — Guelph Marlin Aquatic Club & City of Guelph

Guelph, Ontario, Canada

Swimming Lesson Instructor/Coach

2022 – 2025

- Delivered 400+ hours of competitive swim coaching, providing individualized stroke correction to 20+ swimmers per session.
- Collected and analyzed performance data including split times, stroke counts, and technique metrics to guide targeted skill development.
- Designed data-driven, goal-based training plans that improved efficiency and accelerated progression to higher levels.
- Communicated progress through structured reports and tailored development plans for swimmers and parents.

Aspenwood Swimming

Guelph, Ontario, Canada

Entrepreneur /Co-founder

2023 – 2025

- Co-founded and scaled a private swimming lesson business to \$10K+ in revenue with 100% retention across 50+ families.
- Conducted market research and tracked inquiry, conversion, and retention metrics for pricing, marketing, and capacity planning.
- Implemented and managed scheduling and service delivery systems, optimizing instructor time, pool availability, and client allocation to ensure consistent customer experience.
- Collected and analyzed performance data and client feedback to refine and improve training plans, achieving 98%+ goal completion.

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **University of Waterloo Varsity Swimming:** Currently training and competing at an OUA level.
- **Royal City Multisport:** Junior triathlete for 10 years – competed in Ontario Summer Games and Canadian Championships. 3rd overall in 2023 Ontario Provincial Championships.
- **Other Activities:** Guelph Cycling Club, cross-country, track & field, Guelph Marlins Aquatic Club.