

# Ben Roder

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Personal Website: www.benroderportfolio.org

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## Education

*Lehigh University*, College of Business, Bethlehem, PA Expected Graduation: 05/2029  
Bachelor of Science in Business and Economics (B.S.) | Major: Accounting | Deans List GPA: 3.93

*Solon High School*, Solon, OH Graduated: 05/2025  
Awards/Achievements: GPA: 4.06

- Honors Diploma, AP Scholar with Distinction, Unsung Hero Scholarship

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## Work Experience

**Student Researcher** | Lehigh University College of Arts and Sciences | Seattle Police Department 12/2025 - Present

- Providing graduate-level team with sociological trend analysis and analytics utilizing a decade of data
- Leading an undergraduate team while developing interactive visualizations through R programming

**Research Assistant** | Lehigh University Materials Science and Engineering 10/2025 - Present

- Assisting professors and graduate students with laboratory projects and programming support
- Creating and utilizing python scripts to visualize X-ray diffraction within crystal growths
- Built and integrated six O<sub>2</sub> sensor systems into an experimental prototype

**Student Intern** | Lawrence Inc. | Assembly, Storage, and Distribution Company 04/2025 - 05/2025

- Shadowed CFO, serving as a liaison between management and a five person manufacturing team
- Authored 42 page assembly manual for high-powered saws leading to reduced onboarding time
- Delivered an executive level process-improvement report highlighting opportunities for increased assembly efficiency

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## Built Projects & Systems

**Behavioral Bias Lab** | Interactive Economics Research Project 01/2026 - Present

- Processed 5,000+ live and simulated decision observations to stress-test design and quantify group effects
- Translated anchoring, framing, and loss aversion into structured experiments with testable hypotheses

**IdeaSpark** | Structured Decision Modeling Framework 12/2025 - Present

- Built a behavioral data collection platform capturing real-time preferences across six idea categories
- Engineered session tracking and database logging to build user preference data for iterative validation

**Cooking for U** | AI Recipe Optimization Platform 09/2025 - Present

- Developing an AI mobile app which suggests recipes based on available ingredients
- Implementing backend logic to optimize meal outputs from image-based ingredient inputs

**Hawk Box** | Demand Modeling & Consumer Systems Platform 10/2025 - 01/2026

- Organized a small team to develop a product and go-to market strategy
- Performed market research to identify high-demand items for incoming students

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## Community Engagement

**Skating Counselor** | Gliding Stars of Northeast Ohio 01/2024 - 04/2025

- Taught 40 special needs youth to skate across two seasons and received Volunteer of the Year Award

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## Activities & Interests

**Golf Enthusiast** | Handicap: Quad-Bogey | Enthusiasm significantly exceeds skill level 05/2014 - Present

**Student Athlete** | Lehigh University ACHA Division 2 Ice Hockey 08/2025 - Present

**Musician** | Clarinet | Performed for 8 years serving as first chair in the high school's top band 08/2017 - 08/2025

**Team Captain** | Solon High School Varsity Ice Hockey 10/2020 - 05/2025

- Received Sportsmanship Award for respect on and off the ice

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## Skills

- Arduino Programming, Python, R, SQL, TypeScript/JavaScript, React/Next.js, Website & App Development (Full-Stack), Data Visualization & Statistical Modeling, Hardware Prototyping & Sensor Systems, Git/GitHub, Photoshop, Excel