

Drake Bartolai

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

B.S. in Computer Engineering, Hoelt Technology and Management Minor, 3.1/4.0

Graduating in May 2027

Computer Systems Engineering | *OS Programming in Assembly and C*

Fall 2025

New Product Marketing | *Branding, Market Analysis*

Fall 2025

Data Structures and Algorithms | *C++, Git, Docker*

Spring 2025

Linear Algebra with Computational Applications | *Python, NumPy, Jupyter Notebooks*

Spring 2024

EXPERIENCE

iD Tech Camps

June 2025 – August 2025

Lead Instructor

Lake Forest, IL

- Led a team of 6 instructors, coordinating daily operations and ensuring high-quality delivery of STEM curriculum to 200+ students aged 10–17
- Designed and taught hands-on courses in Python, C++, and robotics, improving students' programming and engineering fundamentals
- Collaborated with my director and regional manager to increase parent satisfaction and optimize the student experience

University of Illinois Physics Dept.

August 2024 – December 2024

Learning Assistant, PHYS 212

Champaign, IL

- Facilitated weekly lab sessions, guiding 40+ students through experiments using electrical and magnetic equipment
- Supported graduate TAs by providing one-on-one mentorship, bridging communication between students and faculty
- Collected student feedback and conducted interviews; results were adopted by the department to improve lab structure

Acannability

April 2024 – August 2024

Web Developer

Chicago, IL

- Engineered an interactive “periodic table of molecules” to improve user readability and engagement, consolidating data from 50+ molecules
- Designed product features improving engagement and readability, contributing to \$10k in raised capital
- Worked directly with entrepreneurs and executives to align technical deliverables with business goals

ENTREPRENEURSHIP

classMate | *TypeScript (React.TS), Java (Spring Boot), Postgres, Docker*

August 2025 - Present

- Designed and deployed a full-stack SaaS platform for students, integrating a TypeScript frontend, Spring Boot API, and PostgreSQL backend
- Implemented OpenAI-powered quiz generation and user-specific study planning, leveraging spaced repetition algorithms
- Built scalable user data models and scheduling logic to support long-term vision of an academic productivity ecosystem

Bartolai Test Prep | *Personal Brand, Professionalism*

August 2021 - Present

- Founded and scaled a tutoring business, designing client management processes to track student progress
- Developed tailored study strategies that resulted in 100% placement of students into top-choice high schools & colleges

LEADERSHIP

UIUC Sports Analytics Society

January 2025 - Present

Technical Project Director

Champaign, IL

- Led development of sports prediction engines using logistic regression and proprietary gradient boosted models
- Utilized python libraries to scrape historical data from sites like ESPN and Pro Football Reference
- Integrated sportsbook APIs to deliver real time data and odds tracking

UIUC Technology Management Student Org

July 2025 - Present

Junior Board Member

Champaign, IL

ATTRIBUTES

Skills | *TypeScript, Java, C++, Docker, Git, Python, NumPy, ML*

Interests | *Reading Fiction, Playing Basketball, Classic Rock, Journaling, Teaching, Programming, Consumer Tech*