

# Drake Bartolai

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## EDUCATION

### University of Illinois at Urbana-Champaign

*B.S. in Computer Engineering, Hoelt Technology and Management Minor*

*ECE Department Alumni Scholarship Recipient*

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

**Probability with Engineering Applications** | *Probability Theory, Statistics*

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

Champaign, IL

*Graduating in May 2027*

*Spring 2025*

Fall 2025

Fall 2025

Spring 2025

## WORK 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
- 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 Development Intern*

*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*

## SKILLS

**Frameworks & Dev Tools** | *Spring Boot, React.TS, FastAPI, NumPy, Postgres, Docker, scikit-learn, Vercel, Railway, AWS*

**Languages** | *Java, TypeScript, Python, SQL, C++, C, Assembly (RISC-V)*