

Ezra Akresh

217-372-9380, ezraakresh@gmail.com

Pursuing B.S. Computer Science @ Georgia Institute of Technology

Key Skills

Languages: Python, JavaScript, Java, C++, Kotlin, Swift

Frameworks/Libraries: ReactJS, UIKit, Supabase, Firebase, AWS

Tools/Platforms: Git, VS Code

Achievements

FIRST Robotics Competition World Champion

April 2023

Led programming for autonomous routines to help secure world title out of 3,300+ global teams.

University of Illinois Research Park Hackathon – 2nd Place

June 2023

Led game logic programming, implementing core mechanics and player interaction systems.

University of Illinois Research Park Hackathon – Most Business Viable

July 2025

Led the development of a machine learning model to predict the remaining useful life of John Deere tractors.

Experience

Software Engineering Intern *PowerWorld Corporation, Champaign, IL*

May 2024 – Aug. 2025

- Designed and built a scalable SQL database to store power system data for major electric utilities; migrated ~100M records using Python and integrated a Natural Language to SQL interface to enable intuitive querying.
- Revamped technical documentation by adding command examples, significantly improving usability and reducing onboarding time for new users.

Course Assistant for CS 124 (Intro to CS I) *University of Illinois, Champaign, IL*

Jan. 2024 – May 2024

- Provided weekly academic tutoring to 3–4 college students as a Junior in HS, collaborating with a mentor to tailor support strategies; earned promotion to paid role after one semester.

Research Intern *Wolfram Summer Research Program, Boston, MA*

June 2024 – July 2024

- Developed a recursive backtracking algorithm to generate the largest possible grid where each cell is a letter and every row and column forms a valid English word.
- Earned *Featured Contributor* recognition for a computational essay with over 3,000 views.

Mathematics Lab Researcher *University of Illinois, Champaign, IL*

Jan. 2024 – May 2024

- Modeled Newton's Law of Cooling on triangulated surfaces using a Python-based simulation.
- Presented findings at the undergraduate research symposium.

US Soccer Federation Certified Referee *Midwest, United States*

March 2022 – Present

- Officiated high-level youth and adult soccer leagues, including the National League Midwest Conference (3rd-highest youth league in the U.S.) and multiple multi-state tournaments.
- Mentored two younger referees, guiding their development in signaling, confidence, and managing challenging sideline behavior.

Education

University Laboratory High School in Urbana, IL

Computer Science @ Georgia Institute of Technology

Graduated w/ 4.0 UW GPA

Current GPA: 4.0 UW

References

Mark Laufenberg, PowerWorld Corporation, CEO lauf@powerworld.com

James Kabbes, John Deere, Software Engineer KabbesJames@johndeere.com