

Ezra Akresh

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Education

Computer Science @ Georgia Institute of Technology

May 2029

Bachelor of Science, Computer Science

Computer Science @ University of Illinois Urbana-Champaign

GPA: 4.0

Took 4 CS classes at the University of Illinois Urbana-Champaign in high school.

Experience

Software Engineering Intern

May 2024 – Aug. 2025

PowerWorld Corporation, Champaign, IL

- 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)

January 2024 – May 2024

University of Illinois, Champaign, IL

- 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

Extracurriculars

Research Intern

June 2024 – July 2024

Wolfram Summer Research Program, Boston, MA

- 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

Lead Programmer

October 2023 – May 2025

FIRST Robotics Competition Team 4096: Ctrl-Z

- Led a team of 3 coders in programming and operating competitive robots, while overhauling onboarding documentation to streamline training for new students
- Mentored younger students in Python programming, guiding both robotics projects and individual coding initiatives
- Operated robot in high-pressure competitions, leading team to record performances during international competition

Programming Projects

Localite

May 2025 – August 2025

React Native Application

- A local community platform for sharing events and resources

Medical Activity Tracker

May 2024 – August 2024

Amazon Alexa Skill

- Developed an Alexa skill to track medication schedules and medical activities

Relevant Technical Skills

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

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

Database Technologies: SQL, MySQL, PostgreSQL

Additional Skills & Interests

Certifications: US Soccer Federation Referee

Awards: FIRST Robotics Competition World Champion (2023), University of Illinois Hackathon 2nd Place (2023)

Volunteer: FIRST Lego League Mentor (2023-2025)

Interests: Competitive robotics, surfing, travelling