

Ezra Akresh

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Education

Georgia Institute of Technology, Atlanta GA 30313

May

2029

Bachelor of Science in Computer Science

University of Illinois Urbana-Champaign, Champaign IL 61822

August 2023 – May

2025

GPA: 4.0

Completed 4 computer science courses focused on discrete math, C++, and Kotlin

Experience

Software Engineering Intern

May 2024 – August

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

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 4,100 views

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

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

Projects

Medical Activity Tracker

May 2024 – August

2024

Amazon Alexa Skill to track medication schedules and activities

- Built and deployed Skill with 5+ custom intents (log events, log medications, and retrieve by date/period), integrated with AWS DynamoDB for persistent storage and SES for automated email delivery of medical records

Modeling Heat Flow on Discrete Structures

May 2023 –

July 2023

Created Matplotlib simulation to demonstrate Newton's Law of Cooling

- Presented research poster at Illinois Mathematics Lab undergraduate conference alongside 20+ other projects

Skills & Interests

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

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

Database Technologies: SQL, MySQL, PostgreSQL

Certifications: US Soccer Federation Referee

Volunteer: FIRST Lego League Mentor (2023-2025), Eastern Illinois Foodbank

Interests: Robotics, surfing, travelling, eating new foods, soccer