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