

Ezra Akresh

Champaign IL 61822 • ezraakresh@gatech.edu • 217-372-5286

Education

Georgia Institute of Technology, Atlanta GA 30313

Bachelor of Science in Computer Science

August 2025 - May 2029

GPA: 4.0

Experience

Software Engineer

October 2025 – Present

Cravr – Quit Binge Eating, Atlanta, GA

- Created interactive mini-games to support users during moments of binge-eating cravings, boosting the app to 50,000+ downloads and 2.5K+ paid subscribers
- Designed and implemented a social media-style friends system, driving increased community engagement

Research Assistant

November 2025 – Present

PAIR Lab, Atlanta, GA

- Built a computer vision pipeline that automatically segments and clusters objects in complex scenes using SAM, DINOv2, and depth estimation
- Evaluated how rotational representations impact the training performance of BAKU and diffusion policies

Data Analyst 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

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 events

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: React, React Native, UIKit, AWS, Git

Database Technologies: SQL, MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Supabase, Firebase

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

Interests: Robotics, surfing, traveling, foodie, soccer