

Aden Krakman

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EDUCATION

University of Illinois Urbana-Champaign

May 2025

Bachelors of Science in Computer Science + Music

- **GPA: 3.7**, James Scholar Spring 2022
- Relevant Coursework: Data Structures, Discrete Structures, Software Design Lab, Probability and Statistics in Computer Science, Intro to Computer Science I and II.

EXPERIENCE

UIUC Department of Computer Science

January 2022 – Present

Undergraduate Course Associate

- Hosted lab sessions, 10 office hours weekly, and reviewed code for CS 124: Introduction to Computer Science I.
- Created course content and answered questions to make content more accessible for course with ~800 students.
- Successfully taught Java, Android Studio, and certain API principles, leading to a median final class grade of 90%.

Association for Computing Machinery (ACM)

June 2022 – Present

Software Developer

- Implemented UIUC ACM's redesigned website with React as the front-end using a client's Figma design.
- Used Storybook and team collaboration to display events, club information, and member accounts seen by 200 students per month.
- Developed user systems using NodeJS to lay the foundations for a robust back-end.

UIUC Prairielearn

August 2022 – Present

Undergraduate Researcher

- Developed new features for UIUC's in-house online assessment platform to improve student collaboration.
- Utilized PostgreSQL and ExpressJS within a large and open-source code base.
- Fixed bugs and reviewed pull requests for continued improvements.

PROJECTS

Chess Positions | *JavaScript, Python, Pandas, React, Flask*

- Created a full-stack web app with JavaScript/React displaying a front-end chess theme for users to choose their favorite of two chess positions.
- Served a REST API with Flask and Pandas library to search, sort, and export data to Excel spreadsheets.
- Utilized a 3rd party API to make get requests and standardize the display.

EZMoney | *Java, JavaScript, HTML/CSS*

- Implemented a currency conversion web app in Java and JavaScript to request 3rd party API data and then show the user interface.
- Communicated with my team to manage goals, handle lacking collaboration, and distribute workload.

Personal Website | *Gatsby, React*

- Built a static website with React and CSS and used the site generator Gatsby for development.
- Deployed the project with Netlify while using Github for continuous development.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS

Libraries & Frameworks: React, Flask, Node.js, Gatsby, Numpy

Developer Tools: Storybook, Git, Docker, Figma