

# Adit Agarwal

(415)238-4045 | [adit3@illinois.edu](mailto:adit3@illinois.edu) | [github.com/adit294](https://github.com/adit294) | [aditagarwal.com](https://aditagarwal.com)

## Education

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### University of Illinois Urbana Champaign

Champaign, IL

*Masters in Computer Science, BS in Computer Science & Advertising*

Aug 2022 - May 2026

**GPA: 3.85 - 2x Dean's List** Coursework: Algorithms, Distributed Systems, Machine Learning, Text Information systems - LLMs Data Structures & Algs, Discrete Math, Linear Algebra, Systems Programming

## Experience

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### AI/ML Engineering Intern – Droisys ([droisys.com](https://droisys.com)) Las Vegas, USA

June 2024 – Present

- Fine tuning a **custom text-to-image** latent diffusion model and a streamlined UX for designers in the alcoholic beverage industry, enabling **generation of advertising creatives** up to 90% faster
- Implementing **image stitching** and **object detection** using **OpenCV** and **YOLOv8** to enhance shelf **monitoring** and management, providing critical **metrics** around sales and consumption for business ops.

### Software Engineering Intern – Asymtos Co-Distributed Cloud ([aysmtos.com](https://aysmtos.com)) June 2023 – Aug 2023

- Built **monitoring tools and interactive dashboards for edge nodes on a distributed cloud system**. Used **React**, **GoLang**, and **Python** to implement heartbeat detection, metric collection, plot creation, and more.
- Wrote extensive API documentation detailing various public as well as internal API resources.
- Designed VC pitch decks using **Figma**, creating better visual resources for the organization.

### Undergraduate Research Assistant

Sep. 2021 – Present

*University of Illinois Urbana Champaign*

*Champaign, IL*

- Studying and finding **biases in AI models** like ChatGPT, BardAI, Dalle and Midjourney.
- Co-authoring a research paper on smart message framing that compels a reader to take action. **Developed web pages, graphics, and persuasive messages, and analyzed large datasets** for the same.
- Researching under Professor Hari Sundaram (CS) and Professor Ewa Maswolska (Advertising).

## Projects

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### Generative AI Quizzing Platform | Python, React, langchain, FAISS, OpenAI

- Developed a Generative AI based quizzing system as a study aid for students. It allows users to upload a PDF of desired text for question generation based on user queries using ChatGPT API.
- Utilized langchain for text vectorization and FAISS for document retrieval.
- Implemented an interactive frontend using React.

### COVID Vaccine Twitter Bots (India) ([linktr.ee/covidvaxind](https://linktr.ee/covidvaxind)) | Python, Twitter API, AWS, APISetu

- Programmed Twitter bots that autonomously tweet about real-time COVID vaccine availability in 6 major Indian cities by scraping government sources. Updates with new availability every minute.
- Received over 2 million impressions and over 2000 followers

### Interactive Connect4 Bot ([aditagarwal.com/connect4](https://aditagarwal.com/connect4)) | JavaScript, JQuery, Bootstrap, HTML, CSS

- Engineered an **interactive, competitive Connect4 bot** employing AI algorithms, including minimax and alpha-beta pruning, achieving a win rate of over 80% against human opponents

## Activities

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### Chair of Operations- Reflections Projections, UIUC

Feb 2023 – Present

- Managed logistics, caterers, budget oversight, and career fairs for the Midwest's largest tech conference with over 1000 students attending, 15 companies and 10 speakers.

## Technical Skills

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**Languages:** Python, Java, JavaScript, Design- HTML & CSS, C, C++, Golang, PHP, Git

**Other Technologies:** OpenCV, Flask, Django, Flutter (App dev), AWS, React, Cloud Computing, LF Edge