

Adit Agarwal

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Education

University of Illinois Urbana Champaign

Champaign, IL

Bachelor of Science in Computer Science & Advertising

Aug 2022 - May 2025

GPA: 3.80 - DEAN'S List 2023 Coursework: Machine Learning, Data Structures & Algorithms, Discrete Math, Linear Algebra, Systems Programming, Large Language Models

Experience

Software Engineering Intern – Asymtos Co-Distributed Cloud (asymtos.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**, helped simplify the company's messaging, and created 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, persuasive messages and analyzed large datasets** for the same.
- Researching under Professor Hari Sundaram (CS) and Professor Ewa Maswolska (Advertising).

Projects

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) | 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) | 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 and Other Experience

Chair of Operations- Reflections Projections, UIUC

Feb 2023 – Present

- Managed logistics, caterers, budget oversight, and career fairs for the Midwest's largest tech conference.

Intern, Oorjan, Mumbai

Sep. 2020- Oct 2020

- Coordinated the installation of a 12kW roof top solar system at an orphanage.
- Worked with IoT components for measuring energy output, gathering metrics, and built a dashboard.

Technical Skills

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

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