Zainab Zaneer

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EDUCATION

University of Illinois-Chicago (UIC), College of Engineering

May 2026

B.S. Computer Science, Minor in Mathematics

Relevant coursework: Software Design, Data Structures and Algorithms, Machine Organization

Cornell University | Machine Learning Foundations Certificate, Break Through Tech AI

Aug 2024

Relevant coursework: Exploratory Data Analysis, Dataset Building, Regression Model Training, Natural Language Model

RELEVANT EXPERIENCE

Machine Learning Engineer Intern | Estée Lauder | Al Studio

Aug 2024 - Present

- Developed a Bayesian Regression Discontinuity model to evaluate and optimize the impact of surprise gift campaigns on customer spending.
- Collaborated with a team of 4 AI fellows and 2 Estée Lauder ML Engineers, delivering biweekly updates, presenting
 milestones, and preparing for a final presentation on key findings.

Undergraduate Teaching Assistant: CS 211 Programming Practicum | UIC

Aug 2024 - Present

- Supported two professors and 17 teaching assistants in delivering course content to 400+ engineering students.
- Led two weekly lab sections of 30+ students, instructing on key topics such as command-line usage, GDB, Valgrind, Git version control, and exception handling in C.
- Hosted weekly office hours, providing one-on-one assistance and debugging on seven course projects, covering dynamic memory allocation, recursion, data structures, and algorithms.

Software Engineer Fellowship | Headstarter Al

Jul 2024 - Sep 2024

- Built 5 apps in 7 weeks in a team of 4, utilizing Next.js, Google Gemini, Firebase, Clerk API, and Stripe API.
- Integrated Gemini LLM API to leverage as a customer service chatbot and to generate useful flashcard text.

Break Through Tech AI/ML Fellowship | BTT | Cornell Tech

May 2024 - Present

- Selected from 3000+ applicants for a year-long fellowship program to learn AI, ML, and Data Science.
- Completed ML Engineering curriculum of data analysis pipelines, training, and validating ML models, proficiency with ML/AI libraries (Pandas, Numpy, SciKit Learn, Matplotlib), model optimization, and data ethics.
- Gained foundational experience with neural networks, decision trees, random forests, gradient boosting methods, and natural language processing technologies.
- Collaborated with Estée Lauder as a machine learning engineer to develop a model analyzing customer purchase data to optimize surprise gift strategies.

Business Technology Solutions: IAI Automation Intern | AbbVie

May 2024 - Aug 2024

- Initiated and led end-to-end process automation, identifying 12 commonly worked routines through collaboration with business technology organizations to streamline and automate workflows.
- Aided in 3 batches of smoke and regression testing AbbVie's internal AI chatbot using Postman prior to releases.
- Developed a prompt library via prompt engineering and configured an internal landing page for all things AI.
- Recorded vertical content documenting interns day-to-day to showcase on AbbVie social media platforms.

Tech in Residence | UIC | BTT | AbbVie

Jan - May 2024

- Worked in a team of 4 on a technology project provided by AbbVie that requires problem-solving, design thinking, and developing creative solutions that rely on technology and data.
- Incorporated journey/opportunity mapping, stakeholder analysis, and human-centered research to help develop, test, and present prototype solutions.

PROJECTS

Predictive RDD ML Model | Python, NumPyro, Pandas, Matplotlib github.com/zzaneer086/Unwrapping-Customer-Delight

- Leveraged 20K+ customer dataset to analyze yearly spending using Bayesian RDD modeling techniques to extract purchase insights.
- Conducted EDA, bandwidth optimization analysis, frequentist/Bayesian analysis and modeling to identify spending patterns and quantify gift impact.

Mnemo | Next.js, Gemini, Firebase, Clerk, Stripe

github.com/NickGroveSE/Mnemo

- Full-stack SaaS flashcard app that allows users to generate, save, and review flashcards on any topic.
- Integrated the Google Gemini API to generate intelligent flashcards based on user-provided topics.

Customer Support AI Chatbot | Next.js, Gemini, Firebase

github.com/zzaneer086/Project-3-AI-Customer-Support

Developed owl themed chatbot through Google Gemini API, fitted with user authentication and language support.

A Touch of Green | HTML/CSS, JavaScript

github.com/zzaneer086/A-Touch-of-Green

- Collaborated in a team during a 24-hour hackathon to create a resource site on recycling.
- Built features allowing users to identify recyclable products and locate nearby recycling centers.

A Dynamically Evil Word Guessing Game | C

replit.com/@zzaneer086/A-Dvnamicallv-Evil-Word-Guessing

 Developed an interactive word guessing game that dynamically selects challenging words from a strategically maintained database, optimizing difficulty for the player.

AFFILIATIONS & INTERESTS

Al Program Ambassador Break Through Tech	Sep 2024 - Present
Student CodePath Intro to Web Development Advanced Technical Interview Prep	Aug 2024 - Present
Member Women in Computer Science UIC	Aug 2022 - Present
Hackathons San Francisco, CA Chicago, IL	Aug 2018 - Present
Mentor Girls Who Code High School	Aug 2018 – Jun 2022

SKILLS

Languages: Python (Pandas, Numpy, SciKit Learn, Matplotlib), C, C++, HTML, CSS

Software: Git, VS Code, Jupyter, Xcode, OpenAI, Gemini, Firebase