

Zainab Zaneer

zzaneer086@gmail.com | [linkedin.com/in/zzaneer086](https://www.linkedin.com/in/zzaneer086) | github.com/zzaneer086 | zzaneer086.github.io

EDUCATION

University of Illinois-Chicago (UIC), College of Engineering <i>B.S. Computer Science, Minor in Mathematics</i> Relevant coursework: Software Design, Data Structures and Algorithms, AI/ML, Language Processing, Data Science	May 2026
Cornell University <i>Machine Learning Foundations Certificate, Break Through Tech AI</i> Relevant coursework: Exploratory Data Analysis, Dataset Building, Regression Model Training, Natural Language Model	Aug 2024

EXPERIENCE

AI Application Software Engineering Intern <i>Ace Hardware</i> <ul style="list-style-type: none">Developed a Retrieval-Augmented Generation (RAG) chatbot within Databricks, enabling 200+ field staff to access documentation efficiently without email queriesEngineered a document chunk filtering algorithm in Python/LangChain to retrieve context prior to relevance drop-off, allowing for improved retrieval adaptabilityDesigned a document search pipeline that prioritizes context from a high-relevance database with fallback to broader sources, boosting accuracy and reliability of generated answers	May 2025 – Aug 2025
Machine Learning Engineer Intern <i>Estée Lauder</i> <ul style="list-style-type: none">Developed a Bayesian Regression Discontinuity Design model to evaluate and optimize the impact of surprise gift campaigns on customer spending, accurately estimating a \$20 uplift in targeted segmentsQuantified ROI of 91% for campaigns, showing that a \$10 gift generated \$19 in incremental spend, validating the campaign's profitabilityDelivered actionable insights by compiling model findings into business recommendations and advising adoption of Bayesian methods for future campaign design	Aug 2024 – Dec 2024
Automation Analyst Intern <i>AbbVie</i> <ul style="list-style-type: none">Initiated and led end-to-end process automation, identifying 12 commonly worked routines through collaboration with business technology organizations to streamline and automate workflowsExecuted smoke and regression testing on 3 releases of AbbVie's internal AI chatbot using Postman, ensuring production stabilityDeveloped a prompt library and configured an internal landing page to centralize AI resources across the company	May 2024 – Aug 2024

PROJECTS

Predictive RDD ML Model <i>Python, NumPyro</i> <ul style="list-style-type: none">Built a Bayesian Regression Discontinuity Design (RDD) model using Python, pandas, and NumPyro on a 20K+ customer dataset, achieving prediction error under 5% and uncovering key purchase insightsPerformed data exploration and bandwidth optimization with Python, applying frequentist and Bayesian techniques, and delivered actionable findings by visualizing spending patterns in matplotlib	github.com/zzaneer086/Unwrapping-Customer-Delight
Mnemo <i>Next.js, Gemini, Firebase, Clerk, Stripe</i> <ul style="list-style-type: none">Developed a full-stack SaaS flashcard platform with Next.js/Firebase/Stripe, enabling intelligent flashcard creation and subscription-based accessIntegrated Google Gemini API to generate flashcards automatically, reducing creation time by 80% compared to manual input	github.com/NickGroveSE/Mnemo

LEADERSHIP & AFFILIATIONS

Student AI4ALL Ignite	May 2025 – Present
AI Program Ambassador Break Through Tech	Sep 2024 – Present
Student CodePath (Intro to Web Development, Advanced Technical Interview Prep)	Aug 2024 – Present
Mentor Women in Computer Science, UIC	Aug 2022 – Present

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, HTML/CSS, Go
Libraries/Frameworks: NumPyro, pandas, Matplotlib, LangChain, Next.js
Developer Tools: Git, VS Code, Databricks, Jupyter, Postman