

# Rafay Danish

847-727-2188 | d.rafaq786@gmail.com | linkedin.com/in/rafaydanish | github.com/sonrafay

## EDUCATION

### Illinois Institute of Technology

*Masters of Science in Artificial Intelligence*

*Bachelors of Science in Computer Engineering, Minor in Artificial Intelligence*

Chicago, IL

Jan 2023 – Dec 2024

Aug 2021 – Dec 2023

## EXPERIENCE

### Machine Learning Engineer

*Kaplan Institute*

May 2023 – Present

Chicago, IL

- Pioneered a grade distribution platform akin to BerkeleyTime, bolstering academic decision-making and enhancing student course selection with accessible historical data insights.
- Crafted a model to streamline students' academic journey, ensuring on-time graduation by optimizing class selection and semester planning, thereby elevating educational efficiency.
- Formulated a grade prediction algorithm using past academic performance, offering personalized grade forecasts to assist students in achieving optimal academic outcomes.

### Fullstack Developer

*Studyhub AI*

Jan 2023 - May 2023

Chicago, IL

- Leveraged advanced prompt engineering techniques to optimize resource utilization and seamlessly integrate web search capabilities.
- Revamped the Google Firebase design to adeptly support a community larger than **1,000** users, employing sophisticated API strategies for improved data management and retrieval efficiency.
- Collaborated closely with frontend engineers to design and implement a user-friendly interface, focusing on simplicity and logical navigation.

### Software Engineer & Mentor

*Illinois Institute of Technology*

May 2022 - Jan 2023

Chicago, IL

- Oversaw the restructuring of the student admissions database for a population exceeding **100**, optimizing data architecture for enhanced efficiency and superior monitoring capabilities.
- Worked in partnership with various departments to devise strategies addressing financial and logistical obstacles, facilitating smoother admission processes for students facing challenges.
- Championed diversity through mentorship, utilizing data analytics to enhance support and foster an inclusive campus culture.

## PROJECTS & VOLUNTEER WORK

### CEO, Lead Developer

*Dryft*

Dec 2023 - Present

Chicago, IL

- Utilized OpenAI's API to innovate a GPT-driven solution, enhancing copywriting for startups, demonstrating expertise in AI applications to boost digital content quality and efficiency.
- Developed custom AI chatbots through sophisticated algorithms, simplifying information retrieval on company websites, highlighting adeptness in boosting customer interaction and site usability.
- Advancing a Predictive Customer Behavior Model using machine learning, integrating real-time data analytics to foresee and enhance customer engagement, epitomizing innovation in AI-driven marketing strategies.

### President

*Illinois Tech Soccer*

Feb 2023 - Present

Chicago, IL

- Coordinated large-scale school football events, engaging over a **100** participants, demonstrating adept event management and organizational acumen.
- Led football club in partnership with others, ensuring successful event execution through effective teamwork and coordination.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, C#, SQL, R, HTML/CSS, JavaScript

**Frameworks:** PyTorch, TensorFlow, OpenCV, FastAPI, React, .NET

**Relevant Coursework:** Machine Learning, Deep Learning, Artificial Intelligence, Natural Language Processing, Computer Vision, Database Organization, Probability & Statistics, Data Structure & Algorithms