Farhan Ahmed

Chicago, IL | (224) 392-1672 | farhan2323.fa@gmail.com | linkedin.com/in/farhan-y-ahmed/

EDUCATION

University of Illinois at Chicago, Grainger College of Engineering **Expected: May 2025**
Bachelor of Science in Computer Science;

TECHNOLOGIES

Programming Languages: C/C++ | Python | JavaScript | HTML | CSS
Tools & Libraries: Git | GitHub | NumPy | Pandas | Matplotlib | Python NLTK | Flask API | ReactJS | NextJS
Database Technologies: SQL | SQL Alchemy| MongoDB | Neo4j |Apache Kafka | Firebase

PROJECTS

UIUC RSO | https://github.com/CS222-UIUC-SP24/group-project-team-66
A dynamic web application providing comprehensive information on Student Organizations for incoming students.
Python | Flask API | SQLAlchemy | Pandas | TypeScript

- Leveraged SQLAlchemy to design a robust database schema to ensure efficient data management and accessibility for the application backend as well as migrated bulk data into database tables using Python.
- Developed robust backend using Python and Flask to ultimately implement full CRUD functionality and design RESTful API routes to deliver data from databases to the frontend.

BUKWIZ
Website-based platform featuring search, recommendation, and checkout systems to enhance book accessibility and engagement.
SQL | HTML | CSS | Flask API | Python | JavaScript

- Engineered a search and recommendation system using SQL, HTML, CSS, and Flask API, enhancing user navigation and book discovery.
- Designed and implemented an integrated checkout system using SQL to allow users to reserve books and manage waitlists, ensuring efficient book access.
- Collaborated on community features such as BukWiz trivia to enhance engagement and strengthen library community interactions through user posts.

BANK PROJECT
A collaborative project to develop a Bank-style program which would keep track of user's bank information such as balance and account number.

- Assisted in the design and implementation of a sophisticated banking system in a group setting, employing advanced OOP techniques to ensure modularity and scalability.
- Architected the Bank class, leveraging hash tables for generating unique account numbers and employing linear collision resolution strategies for optimal performance
- Employed linked lists to establish a flexible and dynamic framework for storing and managing individual accounts

COURSEWORK & EXTRACURRICULARS

Google Machine Learning Crash Course **Present**
Online course exploring Machine Learning topics: regression, classification, clustering & neural networks as well as providing real-world applications to develop industry level proficiency in TensorFlow.

Headstarter *July-August 2024*
Software Engineer Fellow

- *7-week curriculum aimed to teach technologies such as the following: HTML, CSS, DNS, AWS, OpenAI, ReactJS, NextJS, Firebase, Stripe API*
- *Utilized learned technologies to create 5 projects over the span of the 7-week curriculum*