

Farhan Ahmed

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EXPERIENCE

CCC Intelligent Solutions

May 2025 – August 2025

Workflow Software Engineer Intern

- Developed a configuration management system using VueJS, TypeScript, and Pinia that streamlined client setup, enabling real-time customization and deployment of customers' mobile app experience.
- Collaborated with design team to implement a dynamic UI configuration with toggleable features, conditional form fields, and workflow specific navigation to enable non-technical users to customize app behavior independently, improving user autonomy and enhancing overall operational efficiency.
- Increased mobile application accessibility score by 48% through implementation of WAI-ARIA guidelines, semantic markups, and keyboard navigation allowing for better compliance with ADA requirements creating a more inclusive user experience.

EDUCATION

University of Illinois at Urbana-Champaign

Expected: December 2025

Grainger College of Engineering

Bachelor of Science in Computer Science

TECHNOLOGIES

Programming Languages: C/C++ | Python | JavaScript | HTML | CSS

Tools & Libraries: GitHub | NumPy | Pandas | Matplotlib | Python NLTK | Flask API | ReactJS | NextJS | MUI

Database Technologies: SQL | SQL Alchemy | MongoDB | Neo4j | Apache Kafka | Firebase

PROJECTS

UIUC RSO | [GitHub](#)

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 | [GitHub](#)

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.

PANTRY-TRACKER | [GitHub](#)

A Website-based project that allows users to keep track of items in their pantry using user input and image recognition.

React | Firebase | OpenAI API | MUI | JavaScript

- Connected a Firebase database to the website to help keep track of a user's items in their pantry along with the count of the items, which can be adjusted by the user.
- Integrated OpenAI API to connect GPT-4oMini model to allow for image recognition making it easier for the user to add items to their list.
- Deployed the website through Vercel and created a user-friendly UI using Material UI components and React to allow the user to edit their pantry list with ease.