# Frank Mensah

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**Full-Stack Software Engineer** with hands-on experience and educational background in designing, implementing, and maintaining web applications. Proficient in both front-end and back-end technologies, with expertise in languages such as C++, JavaScript, Python, and Java. Collaborated with cross-functional teams to deliver high-quality software solutions while identifying and solving technical challenges.

## Core Competencies

Frontend & Backend Development | Web Development | User Experience Design | Database Management | Agile Development | API Integration | Software Development | Product Design | CI/CD | AI Research | AI Integration

## EDUCATION

**Bachelor of Science in Computer Science |** University of Illinois at Chicago

**Coursework:** Data Structures, Software Design, Software Engineering, Object Oriented Languages and Environment, Web Application Development, Algorithms, Database Systems

## PROFESSIONAL EXPERIENCE

**Productive Edge**                                                                                                                 June 2023 – Aug 2023
**Software Engineer Intern** – Chicago, IL

- Designed and implemented scalable data pipelines in Python and Azure Databricks to streamline the processing and integration of large datasets into MongoDB, enhancing data accuracy and workflow efficiency.
- Developed an AI model using OpenAI's ChatGPT to match candidate resumes with job listings, categorizing candidates to optimize healthcare recruitment.
- Scraped and aggregated healthcare job listings and candidate resumes using BeautifulSoup, Selenium, and various APIs to ensure comprehensive data collection.
- Created and deployed a responsive Next.js web application for healthcare hiring managers to efficiently review candidate-job matches, improving recruitment time and decision making.

**Development Team Project**

- Identified and tested potential Map APIs and implemented them for the Map Exploration System, emphasizing tracking opioid sales in US pharmacies to pinpoint hotspots linked to opioid-related issues.

**University of Illinois Chicago, Recycling Department**                                                      June 2021 - Aug 2021
**Data Engineer Intern** – Chicago, IL

- Entered and tracked data for accreditation processes, making sure all materials were documented and accessible.
- Collaborated with team members to keep accreditation support processes effective and well-documented.
- Coordinated with current and former staff to ensure seamless integration and operation of the new tracking system on Excel, improving task efficiency through effective communication and collaboration

## KEY PROJECTS

**Find Your Roof Nonprofit Platform**                                                                              Feb 2024 - May 2024

- Created a centralized platform to assist homeless individuals in Illinois in accessing shelters, job opportunities, and permanent housing, leveraging Next.js to develop a responsive website.
- Incorporated Rapid and Leaflet APIs to provide an intuitive map visualization of housing and shelter locations.
- Managed project tasks using ClickUp and GitHub, ensuring a smooth Agile development workflow, while also contributing to database architectures using Supabase.

**Omega Delta Phi Fraternity Website**                                                                          Dec 2023 – Feb 2024

- Devised the inaugural fraternity website, as President of Omega Delta Phi, at UIC by leveraging expertise in HTML, CSS, JavaScript, and React to establish an engaging online presence.
- Deployed the website on Vercel while ensuring a responsive design for optimal viewing on various devices.
- Ensured the continuous relevance of the fraternity's online platform by updating and curating content and keeping people informed about current events and activities.

**UIC Org Search**                                                                                                           Aug 2020 – Nov 2020

- Developed a dynamic application using Kotlin to empower students at UIC, enabling them to discover and connect with organizations of interest on campus.
- Streamlined the presentation of club information for enhanced user experience by building a templated page.
- Implemented a feature that automatically populates emails, facilitating communication between users and potential clubs, optimizing the engagement process.

## TECHNICAL SKILLS

- **Languages:** C++, Java, Python, C#, JavaScript, TypeScript, SQL
- **Web Development:** REST API, HTML, CSS, Tailwind, Progressive Web Application (PWA), Shadcn/UI
- **Frameworks & Libraries**: React, Next.js
- **Web Hosting Platform:** Vercel, Netlify
- **Web Scraping:** Selenium, BeautifulSoup
- **Database Management:** MySQL, MongoDB, SupaBase
- **Tools:** Figma, Postman
- **Project Management Tools:** Jira, Clickup, BitBucket, Git, Trello
- **Others:** Microsoft Azure, Databricks, Visual Studio Code, Agile, Scrum, PostHog