

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, and Python. 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

Graduated: May 2024

Coursework: Data Structures, Software Design, Object Oriented Programming, Web App Development, Algorithms, Database Systems

PROFESSIONAL EXPERIENCE

Headstarter AI

July 2024 – Present

Software Engineer Fellow – Remote

- Developing and deploying numerous AI projects using technologies such as ReactJS, Firebase, and Python, focusing on real-world applications and practical implementations.
- Collaborating with peers on AI-driven projects and participating in weekend hackathons, gaining hands-on experience with real-world software engineering practices.

Productive Edge

June 2023 – Aug 2023

Software Engineer Intern – Chicago, IL

- Developed an AI model using OpenAI's ChatGPT and advanced prompt engineering techniques to match candidate resumes with job listings, categorizing candidates to optimize healthcare recruitment.
- 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.
- 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

- Researched, evaluated, and integrated various Map APIs for the Map Exploration System to monitor and track opioid sales in U.S. pharmacies, identifying potential hotspots associated with opioid-related issues.

University of Illinois Chicago, Recycling Department

June 2021 - Aug 2021

Data Engineer Intern – Chicago, IL

- Optimized data management by meticulously entering and tracking information with Python scripts, ensuring all documentation was complete and easily accessible.
- Utilized Excel and Macros for comprehensive data analysis on campus recycling, managing data entry, transfers, and augmentation.
- Improved operational workflows and streamlined the integration of a new Excel-based tracking system by collaborating with team members and coordinating with staff, significantly boosting overall efficiency.

KEY PROJECTS

FamFinance AI Chatbot

July 2024

- Developed an AI-driven customer support chatbot tailored to assist users with investment inquiries, enhancing user experience through real-time, automated responses.
- Incorporated advanced natural language processing (NLP) techniques to enhance the chatbot's ability to understand and respond to diverse user queries, improving overall communication accuracy.
- Integrated Firebase for secure user authentication and data management, ensuring seamless and personalized interactions for returning users.

Find Your Roof Nonprofit Platform

Feb 2024 - May 2024

- Created a centralized platform to assist homeless individuals in Chicago 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.

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, React, NextJS, NodeJS
- Styling:** CSS, Bootstrap, Shadcn UI, Material UI, Tailwind CSS
- Web Scraping:** Selenium, BeautifulSoup
- Database Management:** MySQL, MongoDB, Supabase, Firebase
- Others:** Microsoft Azure, Databricks, Agile, Scrum, Figma, Postman, Git, Bitbucket