




KARIM SAMARA

 London, Ontario

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Selected Highlights:

- Collaborated on the development of a Real-Time Portfolio Monitor, enhancing business owners' decision-making by providing current and historical business insights for informed investment strategies.
- Upgraded the Gray Digital Crypto Exchange to leverage server-side rendering (SSR) with Next.js, resulting in significantly improved SEO, easier caching, and up to 80% faster render times..
- Integrated a Stripe subscription flow using webhooks, enabling seamless communication between the UI and Python backend to manage subscriptions and customer updates for 2,000+ users.

EDUCATION

Western University: B.S. Specialization Computer Science | Sept. 2019 - Oct. 2023

Relevant Courses: *Software Design & Architecture, Object-Oriented Design & Analysis, Software Project Management, Data Structures & Algorithms, Databases I & II, Foundations of Computer Science, Organization of Programming Languages, Computer Science Fundamentals I & II, Software Tools & Systems Programming, Human-Computer Interaction*

TECHNICAL SKILLS

Programming Languages Python | Java | C/C++ | HTML | CSS | Javascript | C#

Technologies GIT | SQL | MYSQL | Linux | PostgreSQL | React | NextJS | Docker | AWS

PROFESSIONAL EXPERIENCE

Gray Digital, Remote **Full-Stack Developer**

Jan. 2024 - Aug. 2024

- Upgraded the Gray Digital Crypto Exchange to leverage server-side rendering (SSR) with Next.js, significantly improving SEO and enabling easier caching, which led to up to 80% faster render times.
- Implemented a responsive dark mode UI across the application, enhancing accessibility and user experience across devices.
- Integrated a Stripe subscription system using webhooks, enabling real-time synchronization between the front-end and Python backend to support customer subscriptions and updates for over 2,000 active users.
- Developed reusable Web3 authentication hooks to support seamless login across EVM-compatible chains and Solana, increasing authentication flexibility and code modularity.

MIK Fund Solutions, New York, United States **Software Engineer Intern**

May 2022 - Aug. 2022

- Contributed to the front-end development of a state-of-the-art Real-Time Portfolio Monitor, enabling business owners to make informed investment decisions by providing comprehensive insights into their portfolios based on current and historical data.
- Created a user-friendly web portal utilizing C#, ASP, and PostgreSQL, serving as an internal communication hub for administrative employees. This portal featured a dynamic news board for announcements, secure file-sharing functionalities exclusive to respective departments, and event planning capabilities, enhancing organizational transparency and efficiency.
- Leveraged SQL expertise to support the development of the database infrastructure integral to the Real-Time Portfolio Monitor, ensuring seamless data integration and accessibility for stakeholders.

PROJECTS/CERTIFICATIONS

Book-A-Movie | Jan. 2023 - Apr. 2023

- Developed a movie booking web application using React and Python, enabling users to browse, book tickets, and purchase snacks online. Implemented Admin features for catalog management, enhancing platform versatility and user experience.

Ivey FinTech Software Development Mentor | Sept. 2022 - Apr. 2023

- Provided guidance to student teams in developing mobile and web applications to boost student life and financial literacy. Conducted group tutorials and one-on-one mentoring sessions for comprehensive support.

IBM zXplore Challenge | June 2023

- Completed advanced-level hands-on challenges on z/OS, covering JCL, REXX, UNIX System Services, and VSAM. Earned IBM Advanced badge for technical proficiency.

Real-Time Crypto Price Dashboard | Oct. 2024 - Dec. 2024

- Developed a responsive web application using TypeScript, React, and WebSockets to display real-time cryptocurrency prices from the CoinGecko API, showcasing data through dynamic visual components.