Francis Mungai

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Summary

Full-stack software developer with hands-on experience building and scaling web and mobile applications using modern technologies. Proven ability to lead projects from concept to deployment, focusing on performance, user experience, and cloud infrastructure optimization. Skilled in integrating secure and scalable solutions.

Education

Case Western Reserve University   **Aug 2020 – Dec 2024**
BS in Computer Science
Relevant Coursework: Data Structures, Databases, Machine Learning, Web Development, Software Craftsmanship

Experience

Full-stack Developer, MedVic   **Sep 2024 – Present**

- Co-founded MedVic, a mobile platform enabling users to find hospital shifts and volunteer opportunities.
- Designed and developed the mobile app using Expo React Native for iOS and Android, integrating React for web-based features.
- Built a scalable backend with Supabase, leveraging PostgreSQL for table design, relationships, indexes, RLS policies, RPCs, and edge functions.
- Optimized database performance with efficient queries and robust security policies.
- Enabled flexible job discovery by connecting users with nearby hospital shifts and volunteer opportunities.

Full-stack Developer, Tu-Fund   **May 2023 – Present**

- Co-founded and led the development of Tu-fund, a platform supporting international students through fundraising and talent acquisition.
- Designed and implemented a responsive UI using React and Next.js, converting Figma prototypes into accessible components.
- Integrated Stripe for secure payment processing, managing real-time donations and automated payouts.
- Configured and deployed on AWS (EC2, S3, DynamoDB, Lambda) ensuring scalability and cost-efficiency.
- Developed a talent acquisition module (talent.tu-fund.com) connecting students with employers.
- Optimized application performance using PM2 and NGINX, ensuring stability and scalability during high-traffic events.

Projects

Urban Discovery System (UDS)   github.com/mjk257/uds

- Developed an interactive map using Mapbox, allowing users to visualize and compare data across 50+ U.S. cities.
- Built dynamic frontend components integrated with backend APIs for real-time updates.
- Collaborated with backend teams to ensure efficient API integration and enhanced data flow.

Skills

Languages: Java, TypeScript, SQL, Python
Frontend: React.js, Next.js, Expo React Native, Tailwind
Backend/Cloud: Node.js, MongoDB, AWS (EC2, S3, DynamoDB, Lambda), Docker, Supabase, PostgreSQL, Mapbox, Nginx