FROILAN SAM MALIBIRAN

SENIOR FULL-STACK ENGINEER

Web and Mobile | AI System Automations | Solution and Product-Focused
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PROFESSIONAL SUMMARY

Creative and self-driven Full-stack Engineer with 6+ years of experience designing, building, and optimizing responsive, scalable web and mobile applications. now focused on integrating AI-driven solutions to enhance user experiences and product value. Skilled in developing modern UIs using React, React Native, Next.js, Expo, and TypeScript, with a strong focus on data visualization, API integration (REST), and test-driven development. Product-focused and impact-driven, I care about shipping high-quality user experiences and delivering business value fast. Passionate about human-centric innovation and building interactive systems that connect the digital and physical worlds. Adept at cross-functional collaboration and thriving in international teams with evolving priorities.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, SQL, HTML, CSS
Front-end Frameworks: React, React-Native, Expo, Next.js, Tailwind, React Query, Server-Side Rendering, etc.
Back-end Frameworks: ExpressJS, Supabase
AI & Automation: n8n workflow automation, AI integration in mobile/web apps
Visualization & UI: Figma, Google Stitch
Backend Integration: REST APIs, CI/CD Automation, AI Workflows, Fastlane
Collaboration: Agile workflows, cross-functional team alignment, technical documentation, mentoring
Project Management and Development Tools: Git, Jira, AI

PROFESSIONAL EXPERIENCE

LEAD APPLICATION ENGINEER
Smartpay FinTech *- Tokyo, Japan | September 2024 - Present*

- Led the architecture and delivery of complex, data-rich frontend interfaces using React, React-Native and TypeScript.
- Built highly responsive UIs powered by modular components, SSR, and real-time data sources.
- Implemented design systems with accessibility and multilingual support for global rollout.
- Established frontend CI/CD pipelines and linting/testing standards, accelerating release cycles.
- Spearheading the development of scalable, cross-platform React Native applications for both iOS and Android, utilizing TypeScript and Expo, and aligned efforts with product and design leads.
- Partnering directly with QA, designers, product managers, and stakeholders to iterate on features and refine user journeys.
- Acting as technical mentor to junior engineers, conducting regular code reviews and fostering knowledge-sharing practices.
- Championing test-driven development, writing robust unit and integration tests to ensure stability and release confidence.

APPLICATION ENGINEER
MIMS Australia *- Remote | September 2021 – September 2024*

- Designed and developed secure, compliant web and mobile interfaces for clinical data access and visualization.
- Translated complex medical requirements into user-friendly dashboards and calculators.
- Integrated backend services (REST) into scalable and performant frontend workflows.
- Conducted UI/UX experiments with clinicians, iterating rapidly through feedback and metrics.
- Mentored junior frontend engineers and reviewed critical feature branches.
- Interfaced closely with the healthcare product team, enabling fast turnaround of features through agile experimentation and iterative design.

- Delivered clean, reusable code while quickly resolving cross-platform bugs and compatibility issues.

APPLICATION DEVELOPER
Morrow Digital *- Bristol, United Kingdom (Remote Part-time) | March 2021 - March 2023*

- Developed and optimized React-based dashboards for compliance and audit systems.
- Reduced frontend payloads by 30% through bundle analysis and lazy-loading strategies.
- Created reusable charting and form components to handle complex validation and offline support.
- Built SSR-ready apps with accessibility compliance for enterprise-grade clients.

APPLICATION ENGINEER
Harmony Cloud Systems *- Singapore (Remote) | September 2020 - August 2021*

- Designed, implemented, and maintained complex frontend systems using React and TypeScript, ensuring cross-browser and cross-platform compatibility.
- Refactored and modernized legacy codebases with React Hooks and TypeScript, significantly improving long-term maintainability.
- Migrated global state management from Redux to React Query, improving data synchronization and network performance by ~38%.
- Researched and integrated modern frontend tooling and SDKs, increasing developer efficiency and system modularity.
- Collaborated closely with QA to identify, reproduce, and fix bugs across varying client environments.
- Authored comprehensive unit and integration tests to validate UI behavior and edge-case logic.
- Prioritized responsive design and accessibility, ensuring seamless UX across devices, screen sizes, and assistive technologies.

KEY PROJECTS

eMIMS PLUS/ELITE - *Healthcare Resource Application*
MIMS Australia | Technologies: React, React Native, Next.js, React Query, TypeScript

- Served as technical lead for a clinical web and mobile application delivering structured medical data and interactive calculators for healthcare professionals.
- Developed device-agnostic interfaces with responsive layouts and real-time data integration to ensure consistent performance across browsers and platforms.
- Ensured compatibility with the latest browser standards and handled cross-environment testing for broad user accessibility.
- Implemented CI/CD pipelines for seamless deployment and frictionless release cycles across staging and production.
- Integrated SQLite/Web SQL and fallback storage mechanisms to support offline access and high reliability in low-connectivity environments.

FOODREADY - *Food Safety Management Application*
Morrow Digital | Technologies: React, React Native, TypeScript, Realm, Expo, n8n, AI/ML

- Developed a web and mobile application supporting food safety operations and compliance audits across distributed environments.
- Implemented local data persistence using browser-based storage and custom caching layers to ensure full functionality without network access.
- Streamlined CI/CD pipelines using GitHub Actions and deployment automation, reducing feedback cycles by ~90%.
- Built an automated QA and deployment pipeline with triggered builds and validation checks, improving release reliability.
- Integrated AI-powered form enhancements using n8n workflows, including:
- Vision input: Image recognition pipeline to auto-classify food safety imagery and pre-populate form fields.
- Voice input: Enabled hands-free data entry via speech-to-text modules, enhancing usability in fast-paced environments.

More experiences and projects on **froilanmalibiran.netlify.app**

EDUCATION

Master of Business Administration
University of the People - *California, USA | Expected Graduation: 2026*

Bachelor of Science in Information Technology
Polytechnic University of the Philippines | *May 2019*
President's Lister; Cum Laude; GWA 1.52