

FRANCIS AMARTEY SAMPAH

Full-Stack Software Engineer Mobile | Web Applications

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PROFESSIONAL SUMMARY

A Full-Stack Software Engineer with 5+ years of experience designing, architecting, and delivering scalable web, mobile, and backend applications for startups, enterprises, and international clients. Experienced in building production systems from concept to deployment, leading technical decisions, and improving software delivery processes.

Specialized in React, TypeScript, Node.js, Python, API-driven architectures, cloud technologies, and database design. Proven experience delivering business-critical platforms including enterprise management systems, workflow automation solutions, mobile applications, and digital transformation projects. Skilled in collaborating with cross-functional teams, mentoring engineers, and translating business requirements into reliable technical solutions.

TECHNICAL SKILLS

Core Technologies (Professional Experience)

Languages:

JavaScript, TypeScript, PHP, WordPress

Frontend (Web):

React.js, Next.js, Tailwind CSS, Material UI, HTML5, CSS3

Backend & APIs:

Node.js, Express.js, Laravel, RESTful API Design, Authentication Systems

Mobile Development:

React Native

Databases:

PostgreSQL, MongoDB, MySQL

Cloud & DevOps:

AWS, Docker, GitHub Actions, Git

Additional Technologies I am familiar with:

Go, Python, Django, Vue.js, Svelte, DynamoDB, SQLite, Bitbucket, Flutter, CircleCI

PROFESSIONAL EXPERIENCE

Independent Software Engineer / Software Consultant

Self-Employed | Accra, Ghana

Jun 2025 – Present

- Deliver custom software solutions that help businesses digitize operations, automate workflows, and improve operational efficiency through scalable web applications and integrated digital systems.
- Lead end-to-end software delivery, partnering with stakeholders to define requirements, design solutions, integrate APIs and external services, and oversee implementation through deployment and ongoing support.
- Develop and integrate AI-powered workflows into software systems to improve application capabilities, automate technical processes, and enhance operational efficiency.
- Improved client operations by replacing manual processes with centralized digital systems, reducing administrative effort by **60%** and supporting over **10 users** across client organizations.
- Engineered an AI-assisted debugging workflow by integrating Laravel application logs with the Gemini API to analyze and explain production errors, reducing root-cause identification and debugging time by **40–60%** while complementing monitoring tools such as Sentry.

Selected Client Engagements

Enterprise Resource Planning (ERP) System

- Designed and delivered an ERP platform that centralized business operations, improved process visibility, and reduced manual workflows by **45%** across **6 departments**.

Laboratory Information Management System (LIMS)

- Delivered a Laboratory Information Management System that digitized laboratory workflows, improved operational tracking, and reduced processing time by **60%** for **3 laboratories**.

Senior Software Engineer

Invennico Techno Labs - India | Remote

Aug 2022 – Jun 2025

- Led delivery of production software solutions for international clients, balancing technical quality, project timelines, and business priorities across multiple concurrent projects.
- Designed scalable application architectures supporting thousands of users, improving system reliability, maintainability, and long-term scalability.
- Collaborated with product managers, designers, QA engineers, and stakeholders to transform business requirements into production-ready solutions.
- Improved engineering quality through architectural reviews, code reviews, and technical mentoring, contributing to more consistent software delivery.
- Optimized application performance and infrastructure efficiency, reducing infrastructure costs by **29%**.

- Became the company's first remote engineer in Ghana, helping establish and expand its engineering presence in West Africa.

Selected Client Engagements

Medkart – Online Generic Medicine Store (India)

- Contributed to one of India's leading online generic medicine platforms serving **thousands of daily customers**.
- Implemented key customer-facing features, including a **store locator**, and enhanced the platform's responsiveness to improve usability and accessibility across devices.

Unific – E-commerce & Marketing Data Synchronization Platform

- Contributed to the development of a platform that synchronizes data between e-commerce and marketing platforms, helping businesses maintain consistent customer and operational data across integrated systems.
- Delivered enhancements that improved platform functionality and supported reliable data synchronization for **over 200 businesses**

Lead Software Engineer & Co-Founder

Wecari | Accra, Ghana

Dec 2021 – Jan 2023

- Co-founded the company and led technical strategy from product conception through production deployment.
- Defined the technology roadmap and established engineering standards that improved delivery consistency and software quality.
- Built and mentored an engineering team of **5 developers**, introducing structured development workflows, code review practices, and technical standards.
- Directed architectural decisions around scalability, security, and maintainability while aligning technical execution with business objectives.
- Collaborated with executive leadership to prioritize product initiatives and deliver customer-focused solutions.
- Improved engineering productivity by **90%** through process improvements and adoption of modern development practices.

Full-Stack Software Engineer

Start Link Africa | Accra, Ghana

Feb 2021 – Aug 2022

- Developed enterprise software solutions for clients in the hospitality and transportation sectors.
- Delivered software solutions that improved operational workflows, customer experience, and business process efficiency.

- Collaborated with stakeholders to translate business requirements into reliable software products.

Selected Client Engagements

Hotel Booking Management System

- Independently delivered a complete hotel booking platform from design through deployment, replacing manual reservation and administration processes.
- Built booking workflows, reporting capabilities, and administrative tools that improved operational efficiency by **80%**.
- Supported daily operations for over **400 customers** through centralized booking and management processes.

Ride-Hailing Platform

- Led development of key platform features across customer, driver, and administrative applications.
- Delivered enhancements that improved platform stability, feature delivery, and user experience for approximately **1,000 drivers**.
- Collaborated with cross-functional teams to prioritize features and deliver releases within project timelines.

Junior Software Engineer & Web Systems Administrator

Facio Innovations Technology | Wa, Ghana

Nov 2018 – Dec 2020

- Developed custom business web applications and WordPress solutions for clients across multiple industries, combining bespoke software engineering with scalable content management platforms.
- Improved client digital operations through custom WordPress themes, plugins, web applications, and technical support solutions tailored to business-specific workflows.
- Contributed to approximately **36% revenue growth** by delivering high-quality digital solutions, accelerating project delivery, and strengthening long-term client retention.
- Engineered custom WordPress themes and reusable plugins that extended core platform capabilities, reducing reliance on third-party solutions while improving performance, maintainability, and client-specific functionality.
- Redesigned the company website and streamlined customer onboarding by integrating a hosting management platform with automated provisioning and account management workflows.
- Improved system reliability through database administration, web hosting infrastructure management, and responsive technical support for a growing client base of **150+ organizations**.

Selected Client Engagements

InvClick

- Developed a custom WordPress-powered business platform that replaced fragmented manual workflows with centralized operational processes for a spatial and statistical consultancy.
- Designed and implemented bespoke WordPress functionality tailored to the organization's operational requirements, reducing administrative effort by **30%** while improving reporting accuracy and operational visibility for approximately **250+ users**.

Ghana Sweden Chamber of Commerce

- Designed and developed a responsive WordPress website with custom functionality that strengthened engagement between businesses and institutions in Ghana and Sweden.
- Improved online visibility and user engagement by **85%** through a modern, high-performance web experience built with tailored themes and organization-specific features.

EDUCATION

University for Development Studies

Bachelor of Science (B.Sc.) Business Information Systems | in progress

Expected July - September 2027

N.J.A. College of Education

Diploma in Basic School Education

July 2019

PROFESSIONAL DEVELOPMENT

- Code with Mosh - Ultimate JavaScript Series • Udemy - The DevOps Essentials (The Handbook)
- Udemy - React Front To Back (Travesy Media)
- Udemy - Implement High Fidelity Designs with Material-UI and React.js
- Udemy - Nodejs API Master Class with Express & MongoDB
- The Ultimate Next.js Series – Code With Mosh

REFERENCES

References available upon request