

Michael Brew

Architect/Team-lead Software Engineer

SUMMARY

- Over 6 years of experience in full-stack development, AI/ML engineering, and cloud-native architecture, with a BSc. in Computer Engineering from University of Ghana
- Proficient in JavaScript, TypeScript, Python, and frameworks like React, Next.js, Node.js, and Express, delivering scalable SaaS and mobile solutions
- Led end-to-end product development as CTO, architecting high-availability systems with 99.9% uptime and automated CI/CD pipelines on AWS and GCP
- Skilled in agile methodologies, test-driven development, and DevOps practices, optimizing cloud workflows and ensuring robust, maintainable codebases

TECHNICAL SKILLS

Main Technical Skills	JavaScript (6 yr.), TypeScript (4 yr.), Python (3 yr.), React (6 yr.), Node.js (6 yr.)
Programming Languages	Dart, JavaScript (6 yr.), PHP, Python (3 yr.), Swift, TypeScript (4 yr.)
JavaScript Frameworks	Express (6 yr.), Ext JS (2 yr.), Node.js (6 yr.), React (6 yr.)
JavaScript Libraries and Tools	Mongoose (4 yr.), React Native (2 yr.), Redux-Saga (4 yr.)
AI & Machine Learning	Neural Networks
Databases & Management Systems / ORM	MongoDB (4 yr.), MySQL, SQL
UI Frameworks, Libraries, and Browsers	Material UI, Tailwind CSS
Cloud Platforms, Services & Computing	DigitalOcean, GCP (2 yr.)
Industry Domain Experience	seo
Version Control	BitBucket (2 yr.), Github Actions (2 yr.)
Deployment, CI/CD & Administration	CI/CD (3 yr.), CircleCI (2 yr.)
SDK / API and Integrations	Facebook Auth, RESTful API (4 yr.)
QA, Test Automation, Security	Jest (2 yr.), React Testing Library

Message/Queue/Task Brokers	Kafka (3 yr.)
iOS Libraries and Tools	SwiftUI
Other Technical Skills	Fine-Tuning SonarQube, Vue-bootstrap

WORK EXPERIENCE

Chief Technology Officer (CTO) - Ivory (Core SaaS products including a high-availability logistics management ecosystem)

Duration: 2025 – Present

Summary:

- Architected and launched multiple core SaaS products, including a logistics management ecosystem spanning Web, iOS, and Android platforms
- The project focuses on providing scalable, real-time operational tracking and logistics management solutions

Responsibilities:

- Defined technical roadmap, infrastructure architecture, and data strategy for rapid user scaling.
- Led cross-functional engineering teams to establish automated CI/CD pipelines and robust API integrations.
- Ensured scalable cloud infrastructure with 99.9% system reliability.

Technologies: MERN stack, iOS & Android platforms, CI/CD pipelines, API integrations, cloud infrastructure

Lead Software Engineer / ML Engineer - Turing (Intelligent full-stack architectures and domain-specific AI models)

Duration: 2024 – Present

Summary:

- Led development of intelligent full-stack architectures and implemented domain-specific AI models to improve enterprise client solutions
- The project involved enhancing AI model accuracy and building scalable AI/ML pipelines for real-time data processing

Responsibilities:

- Spearheaded training and fine-tuning of deep learning models using PyTorch.
- Engineered scalable AI/ML pipelines and microservices with Python, Node.js, and Docker.
- Managed agile engineering teams through mission-critical sprint cycles.

Technologies: PyTorch, Python, Node.js, Docker, AI/ML pipelines, microservices

Software Engineer - MaxSold (Location-based estate auction and bidding web platform)

Duration: 2023 – 2024

Summary: Developed core modules for a high-traffic, location-based estate auction and



bidding platform, enabling users to participate in online auctions with responsive and performant interfaces.

Responsibilities:

- Developed dynamic user interfaces using Next.js and TypeScript.
- Integrated frontend with Node.js backend services.
- Designed and maintained automated testing suites with Jest.
- Optimized cloud deployment workflows on Google Cloud Platform using CircleCI, GitHub, and Docker.

Technologies: Next.js, TypeScript, Node.js, Jest, Google Cloud Platform, CircleCI, GitHub, Docker

Software Engineer - OOTI (Enterprise resource planning (ERP) SaaS for architectural firm management)

Duration: 2022 – 2023

Summary: Contributed to the development of an ERP SaaS platform tailored for architectural firm management, focusing on project management and financial tracking modules to improve operational efficiency.

Responsibilities:

- Developed project management dashboard and financial tracking modules using React, TypeScript, and Node.js.
- Collaborated on system design and modular component architecture for scalability.
- Maintained code quality through integration and unit testing.

Technologies: React, TypeScript, Node.js, integration testing, unit testing

Full Stack Developer - Best Adapted Company Limited (Collaborative property and room advertisement rental platform)

Duration: 2020 – 2022

Summary: Engineered a collaborative rental platform for property and room advertisements, enhancing user acquisition through advanced SEO and delivering secure, optimized frontend and backend solutions.

Responsibilities:

- Implemented frontend solutions with React and backend RESTful services.
- Applied SEO techniques to increase organic user acquisition.
- Conducted wireframing, UI prototyping, and component testing using Jest and React Testing Library.

Technologies: React, RESTful services, SEO, Jest, React Testing Library

Software Developer - Fundi Hub Company Limited (Enterprise-scale applications and Loowatt cross-platform mobile application)

Duration: 2018 – 2020

Summary: Architected enterprise-scale applications and developed Loowatt, a cross-platform mobile app for data and revenue collection workflows supporting Clean Team Ghana's sanitation initiatives.

Responsibilities:

- Developed user interfaces with React and backend services with Node.js/Express/Mongoose.
- Designed and deployed React Native mobile application.



- Managed global state with Redux and Context API.
- Handled DevOps workflows including version control and AWS deployments.

Technologies: React, Node.js, Express, Mongoose, React Native, Redux, Context API, Bitbucket, AWS

EDUCATION

- **University of Ghana**
BSc. in Computer Engineering — 2017

