

Maame Yaa Twumasi

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Full Stack Developer who designed a 7-entity PostgreSQL schema, built an 11-state application lifecycle with enforced transitions, and implemented an end-to-end document upload pipeline with AWS S3. Writes production backend services in Python/FastAPI and frontend interfaces in React and Vue. AWS Certified Cloud Practitioner.

TECHNICAL SKILLS

- Languages & Frameworks: JavaScript, TypeScript, Python, HTML/CSS, React, Vue.js, Nuxt.js, Next.js, Node.js, Express, FastAPI, Twig
- Backend & Data: REST APIs, PostgreSQL, MySQL, SQLAlchemy ORM, Pydantic, Prisma, Database schema design, Application state management, Authentication basics (JWT, Firebase Auth)
- DevOps & Tooling: Docker, Git (GitHub and GitLab workflows), CI/CD pipelines, Alembic migrations, Swagger, Postman, Apidog, Fortrabbbit, AWS (boto3, CloudShell, S3, SES), Google Cloud APIs, SMTP, Mailhog
- Frontend & UI Engineering: Component-based architecture, Admin dashboards, Tailwind CSS, Responsive layouts, Design-to-code implementation (Figma), Form handling, Protected routing, Session aware UI
- Testing & Quality: Pytest, API testing, Unit and service-level testing, Integration testing
- Collaboration & Workflow: Agile development, Code reviews, Working in distributed teams, Technical documentation, Trello-style task tracking
- CMS & Web Platforms: Craft CMS, WordPress, Shopify, Wix

CERTIFICATIONS

Amazon Web Services: AWS Certified Cloud Practitioner (2025) | Google: Google Analytics Individual Qualification (2024)

WORK EXPERIENCE

Software Engineer (Full Stack, Backend-Leaning) | Cher Inc | Remote 10/25 - Present

- Designed and implemented the backend foundation for an early-stage CRM and Loan Origination System supporting the mortgage 1003 workflow.
- Designed a relational PostgreSQL database schema spanning 7+ core entities, including organizations, users, borrowers, applications, documents, and audit trails.
- Built SQLAlchemy ORM models with enums, soft deletes, indexing strategies, and lifecycle timestamps across 11 application states, from draft to completion.
- Implemented an application state management system using a state-machine approach, enforcing valid transitions, automatic status updates, and progress tracking based on document completion.
- Set up and managed containerized backend services using Docker and Docker Compose, including database services and migration workflows.
- Created and applied Alembic migrations to support iterative schema changes while maintaining data integrity across environments.
- Developed service-layer logic and integrated FastAPI endpoints with Pydantic validation, keeping business logic decoupled from API routes.
- Built an end-to-end document upload workflow integrated with PostgreSQL and AWS S3 using multipart form data, including 10MB size enforcement, MIME type restrictions, UUID-based filenames, and consistent API error handling.
- Implemented AI agent document request logic that detects missing requirements, prioritizes requests, and generates user-friendly upload instructions based on application progress.
- Expanded contribution into the Next.js frontend by setting up Prisma against the shared PostgreSQL database, generating models from the existing schema, and preparing the app for database-backed authentication.
- Built the frontend authentication foundation using NextAuth.js with PrismaAdapter, CredentialsProvider, and JWT-based sessions for loan officer login.
- Developed login, registration, and protected dashboard flows in Next.js App Router, including middleware-based route protection and redirects based on authentication state.
- Extended session handling to expose role and organization metadata across the frontend for authorization and organization-level logic.
- Strengthened reliability through automated testing, manual validation, and technical documentation across backend and frontend workflows, including AWS S3, SES, SMTP, and MailHog-based testing.

Software Engineer (Frontend Engineer) | Aortem | Remote 03/25 – 01/26

- Worked on building and maintaining the company website using Craft CMS and Twig, and supported deployment and hosting on Fortrabbbit before transitioning fully to SaaS product development.
- Contributed to the development of a SaaS admin platform built with Vue 3 and Nuxt 3, supporting 4 product modules across Standard, Enhance, and Enterprise plans.
- Implemented dynamic admin interfaces including dashboards, tables, filters, pagination, and multi-step modal workflows based on Figma designs.
- Built 10+ reusable Vue components and shared composables to support scalable UI development across multiple feature areas.
- Integrated frontend views with mocked and real APIs, managing asynchronous data fetching, caching, and UI state management.
- Worked on authentication using Firebase, and onboarding flows involving multiple user roles and subscription tiers, implementing conditional routing and gated UI behavior.
- Collaborated with engineers and designers through GitLab workflows, contributing to feature branches, merge requests, and peer code reviews.

Founder & Software Developer (Part-time) | Camara Ghana Web Development | Remote 06/21 - Present

- Co-founded and built custom websites for small businesses using MERN Stack and CMS platforms including WordPress, Shopify, and Wix, delivering e-commerce sites, landing pages, and informational websites.
- Led end-to-end project execution from client requirements and design selection to development, deployment, and post-launch support.
- Implemented third-party integrations such as payment gateways and contact forms to support online transactions and customer inquiries.
- Worked directly with clients to manage timelines, incorporate feedback, and deliver projects aligned with business needs.

Website Developer | The Dayton Weekly News | Dayton, Ohio 03/23 – 04/25

- Rebuilt and managed the organization's website using Wix, improving mobile responsiveness and overall site structure.
- Implemented SEO improvements including metadata restructuring and content optimization, contributing to a 78% increase in homepage traffic.
- Used Google Analytics to monitor user behavior and inform layout and content updates to improve engagement.

PROJECTS

Elopement Tracker for Children with Autism (MERN, IoT, Google Cloud, MQTT, LoRaWAN)

- Built a real-time geofencing alert system with MySQL, Express, React, Node.js, GPS, and LoRaWAN to track children with autism.
- Used React and Google Maps API via Google Cloud for live fence drawing, and Socket.IO & MQTT for instant alerts.

Bilingual FAQ Chatbot (Python, Streamlit, AI, TensorFlow)

- Created a bilingual chatbot with Python; NLP and langdetect to support English and French queries. Trained a TensorFlow/Keras intent model used in production demo.
- Delivered a responsive Streamlit UI for easy user interaction and FAQ access.

EDUCATION

B.Sc. Computer Engineering, Academic City University, Ghana | Graduated July 2024