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PROFESSIONAL SUMMARY

Experienced Software Engineer with over 3 years of hands-on experience in building, customizing, and maintaining scalable web applications. Proficient in using Next.js, React.js, TypeScript, and Node.js to develop high-performance, responsive web applications. Led cross-functional teams to build and maintain digital products in fast-paced, collaborative environments. Experienced in version control using Git, implementing automated tests with Jest and Cypress, and optimizing frontend performance for user-centric applications. Actively contributed to technical documentation and established best practices for code maintainability and security. Passionate about building and optimizing RESTful APIs and GraphQL services. Consistently maintained a focus on performance optimization and Core Web Vitals throughout development. Led the implementation of responsive designs from Figma and other design tools. Have experience in transitioning legacy systems to modern frameworks and tools, improving functionality, and user experience. Mentored junior developers, fostering an environment of collaboration and continuous learning while assisting them with complex technical challenges.

EDUCATION

Kwame Nkrumah University of Science and Technology

Jan 2022 – Aug 2025

BS in Computer Science

- **Coursework:** Computer Architecture, Data Structures and Algorithms, Software Engineering

WORK EXPERIENCE

Lead Fullstack Web Developer

Taifa, Accra

Arfre Ltd

Oct 2023 – Dec 2024

- Led development teams ranging from 3-5 developers on projects that allowed our clients to gain insights from their data, streamline business processes, reduce costs, and gain the competitive edge in their industries.
- Updated and refactored internal and B2B applications by migrating from deprecated or insecure technologies to modern PHP practices
- Achieved higher client satisfaction by resolving over 20 reported bugs and implementing client-requested UI improvements on a school management system.
- Coordinated with QA teams to conduct product testing, including functional and end-to-end (E2E) testing, for platforms like the school management system, food delivery system, and social media app.
- Designed and developed responsive web applications for educational and delivery services using HTML, CSS, JavaScript, PHP, and Python—focusing on user-friendly interfaces and seamless navigation.
- Achieved higher client satisfaction by fixing 20+ client-reported bugs and implementing custom UI improvements for the Edupluslink school management system.
- Developed and maintained Afrobite, a food delivery web application, ensuring efficient order placement, vendor management, and real-time status updates.
- Implemented graph visualizations and interactive data charts to provide insights into user engagement and administrative data across platforms.
- Integrated Argo CD for continuous deployment, streamlining the CI/CD pipeline and accelerating delivery cycles.
- Built robust RESTful APIs with NestJS and enabled real-time communication using Socket.IO, incorporating secure JWT authentication, TypeORM for database management, MongoDB, and Redis caching—all within an Agile workflow.
- Managed and optimized complex database architectures using Azure SQL Database, CosmosDB, AWS DynamoDB, and Cassandra. Integrated cross-platform data solutions across GCP and configured Amazon S3 for secure object storage.
- Used Azure DevOps for sprint planning, version control, and release management, ensuring team produc-

tivity and timely feature releases.

- Troubleshoot and debugged critical API-related issues, improving stability and performance across backend services.
- Documented API endpoints using the OpenAPI specification, improving developer collaboration and API consumption.
- Designed and developed scalable APIs using ASP.NET Core, integrated GraphQL for efficient data querying, and implemented secure authentication and authorization mechanisms.
- Maintained cloud infrastructure via Heroku, automating provisioning and scaling using Terraform.
- Deployed containerized services with Kubernetes for high availability and microservice scalability, while managing CI/CD pipelines to streamline deployments.
- Participated in full SDLC using Agile/Scrum practices, contributing to planning, implementation, and delivery.
- Created a Data Access Layer (DAL) using Spring Data and Hibernate ORM, including development of DAO interfaces and reusable components.
- Practiced Test-Driven Development (TDD) by writing comprehensive unit and functional test cases.
- Configured Dispatcher Servlet, View Resolver, and Transaction Manager in Spring framework, and set up JNDI for database connection pooling.
- Automated builds and deployments using Jenkins, improving delivery reliability and developer efficiency.

Fullstack Mobile Developer

Remote

TechQuestExplorers

Nov 2023 – Present

- Collaborated with UI/UX designers to translate Figma, Adobe XD, and Photoshop designs into pixel-perfect mobile interfaces using React Native, ensuring visual consistency and responsiveness across devices.
- Developed a food delivery app (CoolChop) featuring real-time order tracking and an interactive map interface, enhancing the user experience for customers, riders, and restaurant partners.
- Engineered frontend architecture using scalable components and custom hooks, applying modern React Native design principles and best practices.
- Built and optimized a lightweight SQLite-based backend, ensuring efficient local data management and smooth performance even on low-end devices.
- Integrated secure payment systems and developed custom order management workflows, streamlining food ordering and delivery operations.
- Designed and implemented GraphQL-based APIs using Node.js, enabling efficient client-server communication and dynamic data handling.
- Implemented secure authentication and role-based access using JWT and Node.js, ensuring data protection and session integrity.
- Conducted extensive testing and debugging using Jest, Expo, and real-device testing to ensure smooth cross-platform performance.
- Leveraged analytics tools like Google Analytics and Firebase to track user behavior and app engagement, feeding insights into continuous UI/UX improvements.
- Utilized Heroku and Terraform for backend deployment, automating infrastructure provisioning and scaling.
- Applied OAuth protocols and custom crypto-based verification for user validation and secure onboarding.

TECHNOLOGIES

Languages: JavaScript, TypeScript, PHP, C, Python, Regular Expression, React.js 19, Next.js 15, Nuxt, Nest.js, Angular, VueJS, Backbone, Handlebars, TailwindCSS, SASS, LESS, Ember, Django, WordPress

Databases: PostgreSQL, SQL Server, MongoDB, Oracle, Cosmos DB, Redis, Cassandra, Elastic Search

Cloud & DevOps: AWS (EC2, RDS, S3, Lambda, IAM, CloudFormation), Kubernetes, Jenkins, Terraform, Helm, Beanstalk, Azure (Functions, App Services), Kafka, RabbitMQ, ActiveMQ, Logstash, Kibana

Testing & Tools: Websocket, JUnit, TestNG, DBUnit, Mockito, Selenium, Postman, JMeter, Cypress, Enzyme

Architecture: Microservices Architecture, Design Patterns (UML, BDD, TDD), OOD, MVC

Others: Git, GitHub, GitLab, Bitbucket, Agile Methodologies, IntelliJ IDEA, Eclipse, Visual Studio Code, JIRA, Confluence, Zustand, GraphQL, RESTful APIs, JWT, Nginx, Docker, Kafka Streams, Kafka Connectors, AWS SNS, AWS SQS, CI/CD pipelines