

# Kingsley Botchway

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**Summary** — Software Engineer with 7+ years of experience in building secure, scalable, and deployable cloud-native solutions. Proficient in backend development using Java, Node.js, TypeScript, and frameworks like Spring Boot and Express.js. Experienced in using AWS AI services to create scalable applications, building AI agents and dApps. Cybersecurity background enables the development of secure systems with robust authentication and data protection. Full-stack capabilities include React for frontend, containerization with Docker, and CI/CD with Git and GitHub Actions.

## Skills

<b>Languages</b>	Java, Node.js, TypeScript, Python, JavaScript	<b>AI &amp; Web3</b>	AWS AI Services (Bedrock, SageMaker, Rekognition), AI Agents, dApps (Solidity, Ethereum)
<b>Frameworks</b>	Spring Boot, Express.js, React, Next.js	<b>Security &amp; QA</b>	Cybersecurity, Quality Assurance
<b>Cloud &amp; DevOps</b>	AWS Cloud Computing and Deployment, Docker, Git, GitHub Actions		
<b>Databases</b>	SQL, MongoDB		

## Experience

### AmaliTech 2025 – Present

Software Engineer

- Developed and deployed secure, scalable backend systems using Java, Spring Boot, and AWS cloud services, focusing on building deployable solutions.
- Built RESTful APIs and integrated AWS AI services like Bedrock and SageMaker for automation and scalable applications.
- Implemented robust authentication, access control, and data protection measures, leveraging cybersecurity expertise to build secure systems.
- Utilized containerization with Docker and CI/CD pipelines with GitHub Actions for efficient AWS deployments.
- Collaborated on building AI agents and dApps to enhance application functionality and scalability.

### M&M Delivery Services 2024 – 2025

Backend Lead

- Led the development of a serverless backend using AWS cloud services, Node.js, and MongoDB for scalable order management.
- Enabled features like product uploads, order placement, rider assignment, real-time payments, and AI-powered recommendations using AWS Rekognition and other AI services.
- Containerized services with Docker and deployed on AWS for high scalability, performance, and secure operations.
- Applied cybersecurity best practices to protect data and prevent unauthorized access.

### Our Lady of Grace Hospital 2023 – 2024

IT Operations Officer (Intern)

- Managed IT infrastructure, ensuring system reliability and security through network administration and cybersecurity measures.
- Performed software updates and vulnerability assessments to maintain secure and scalable systems.
- Automated routine tasks to improve efficiency and supported deployable solutions for hospital operations.

### DRATSA (KINTAMPO HEALTH COLLEGE) 2023 – 2023

Full Stack Developer

- Developed an electronic voting system using Flask, MySQL, HTML, and CSS with real-time features.
- Implemented secure voting processes with authentication and data protection.
- Used Ngrok for secure public access during testing and deployment.

### Abbeas Technology 2022 – 2023

Web Developer (Intern)

- Developed full-stack web services using React, Express, MongoDB, and Node.js.
- Containerized applications with Docker for consistent and scalable deployments.
- Focused on backend logic and secure system design using cybersecurity knowledge.

Education

<b>Kwame Nkrumah University of Science and Technology (KNUST)</b>	
<i>Master of Science in Cybersecurity and Digital Forensics</i>	2024 – 2026
<i>Bachelor of Science in Computer Science</i>	2020 – 2024
<b>ALX Africa</b>	
<i>Software Engineering Program</i>	2022 – 2023

Certifications

- AWS Certified Developer - Associate
- AWS Certified Cloud Practitioner
- Meta Full-Stack Developer (Coursera)
- ALX Backend Developer

Projects

<b>Chain Explorer</b>	2025
<ul style="list-style-type: none"><li>– Built a Web3 platform to explore transactions and blocks on Ethereum, BNB, and other blockchain networks, hosted at chain-explorer.mandmservicescorp.org.</li><li>– Utilized Solidity and Ethereum APIs for secure and efficient blockchain data retrieval and visualization.</li><li>– Deployed on AWS with containerized services, ensuring scalability and secure access control.</li></ul>	
<b>Travel Itinerary Platform</b>	2025 – Present
<ul style="list-style-type: none"><li>– Developed a microservices-based platform using Spring Boot for simplifying trip planning with personalized itineraries and secure authentication.</li><li>– Integrated AI services for real-time planning and notifications, ensuring scalability and security through cybersecurity practices.</li><li>– Deployed on AWS with containerization for efficient, deployable solutions.</li></ul>	
<b>Task Management System</b>	2025
<ul style="list-style-type: none"><li>– Built a serverless task management application using AWS SAM, Cognito for authentication, DynamoDB for storage, and Lambda functions.</li><li>– Implemented notifications via SNS and SQS for asynchronous processing, focusing on scalable and secure backend architecture.</li><li>– Leveraged cybersecurity knowledge to ensure robust data protection and access controls.</li></ul>	
<b>Ride-Sharing System</b>	2025
<ul style="list-style-type: none"><li>– Designed a scalable ride-sharing backend with Cognito authentication, WebSocket API for real-time updates, and DynamoDB for location data.</li><li>– Used SQS for order queuing, Lambda for processing, and Redis for geolocation, deployed on AWS for high availability.</li><li>– Incorporated secure practices to protect user data and prevent vulnerabilities.</li></ul>	
<b>Adaptive Authentication Research</b>	2025
<ul style="list-style-type: none"><li>– Conducted research on adaptive authentication for cloud-native systems, focusing on context-aware access control and forensic analysis.</li><li>– Developed prototypes using Java, Spring Boot, and AWS services, emphasizing secure and scalable implementations.</li><li>– Integrated database-driven analytics for enhanced security in distributed environments.</li></ul>	
<b>Electronic Voting System (E-Vote)</b>	2023 – Present
<ul style="list-style-type: none"><li>– Built a secure electronic voting platform using Flask, MySQL, and frontend technologies.</li><li>– Incorporated real-time vote counting, automated reminders, and live results visualization.</li><li>– Ensured security and transparency through robust authentication and data encryption.</li></ul>	
<b>Serverless Delivery Backend</b>	2024 – 2025
<ul style="list-style-type: none"><li>– Developed scalable serverless architecture on AWS with Node.js and MongoDB.</li><li>– Integrated AI for recommendations and real-time features, containerized for deployment.</li><li>– Focused on secure, performant systems using cybersecurity practices.</li></ul>	