

Milton Andrew Johnson

Full Stack Developer

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SUMMARY

Full Stack Developer with 3+ years of hands-on experience in building modern web applications using React and Java Spring Boot. Skilled in microservice architecture, secure REST API design, MongoDB schema optimization, and Agile delivery cycles. Cloud deployment experience with AWS and CI/CD pipelines; adaptable to GCP.

PROFESSIONAL EXPERIENCE

Full Stack Web Developer Internship

Next Play Nation — April 2025 – June 2025 - Completed | [Live Project Internship Web App Recommendation Letter](#)

Completed an internship web & mobile app focused on building a secure, scalable, and real-time web platform for event and internship management.

- Developed a robust Admin Panel with full control over internships, user management, and live event creation.
- Collaborated closely with the CEO and development team in an Agile environment, participating in sprint planning, daily stand-ups, and regular retrospectives to ensure continuous delivery and alignment with company goals.
- Delivered new features in iterative increments, allowing for early testing, feedback, and adjustment based on evolving requirements.
- Engineered a Live Event Calendar allowing real-time event publishing without requiring page reloads.
- Implemented real-time communication using WebSockets & Socket.IO for seamless client-server updates.
- Built a scalable React + TypeScript frontend hosted on AWS Amplify, ensuring fast global access and CI-based frontend deployment.
- Designed backend infrastructure on AWS EC2/Elastic Beanstalk to support REST APIs, live event broadcasting, and logging
- Integrated Authentication & Authorization systems with role-based access and session handling.
- Enforced API Rate Limiting to protect backend endpoints from abuse and ensure performance.
- Designed a custom Advanced Error Logging System:
 - Structured client-server logging across major modules like Admin Login, Dashboard, and Donations.
 - Created Express routes for log capture with timestamped .log files stored securely.
 - Ensured concurrency-safe writes using Node.js fs module.
- Implemented CI/CD pipelines to automate code integration (CI), early-stage testing, and deployment to platforms like Render.com and AWS (CD), ensuring fast and reliable delivery with minimal manual steps.
- Containerized the full stack application using Docker, enabling consistent local development and production deployment. Verified container execution via docker ps, confirming successful client (internshipnextplaynation-client1) and server (internshipnextplaynation-server-1) startup.

Showcases production-grade full stack architecture, real-time communication, iterative Agile delivery, error resilience, and AWS-powered deployment pipelines.

Full Stack Java Server-Side Spring Boot User Authentication Web App [Web App Deployed Live](#)
Nov 2023-Dec 2023

Completed a full Stack Spring Boot Java Server Side Web App that integrates with MongoDB database

- Developed and deployed secure RESTful APIs using Java with Spring Boot, integrating with MongoDB for user registration and authentication, including JWT-based session management and CORS configuration.
- Containerized both client (React) and server (Spring Boot) applications using Docker, creating a multi-stage build and orchestrating services via Docker Compose, enabling smooth cross-environment deployments.
- Engineered full-stack authentication workflows by connecting a React frontend with the Java backend via fetch and REST endpoints, handling credential-based registration, login, and secure cookie-based sessions.

Shoe Store E-Commerce App (MERN Stack) Jan 2025 [Web App Deployed Live](#)

Designed and built a secure e-commerce web and mobile app for shoe sales, featuring JWT authentication, bcrypt password hashing, secure cookie storage, and Stripe payments. Implemented rate limiting, brute-force protection, and duplicate account prevention. Developed full cart, checkout, and order flow with validation, structured error handling, and a responsive UI optimized for mobile devices.

- Integrated Stripe Elements for seamless and secure payment form handling.
- Built full cart logic with validations for size, color, and quantity before checkout.
- Containerized the entire application with Docker, enabling seamless deployment and consistent environment parity across development and production.

University Mobile App (React Native) Dec 2024-Dec 2024 [Web App Deployed Live](#)

Built a demo university mobile app designed to engage students with dynamic content, articles, event updates, and contact forms.

- Highlights: Article search/filtering, pagination, reusable UI components, form validation.
- Delivered consistent mobile UX using navigation containers and image carousels.

EDUCATION

B.S. in Information Technology — *Concentration: Software Engineering* | **Middle Georgia State University**, Macon, GA

TECHNICAL SKILLS

Frontend: TypeScript, React.js, React Native, Tailwind CSS, HTML5, CSS3

Backend: Java, Spring Boot, Node.js, Express.js, REST APIs, GraphQL, WebSockets, Socket.IO

Database: MongoDB, PostgreSQL **Testing & QA Tools:**

- **Client-Side Testing:** Experience applying Playwright to write and execute end-to-end tests, validate UI component rendering, assert DOM behavior, and automate browser interactions across multiple views.
- **Server-Side Testing:** Used Selenium WebDriver with ChromeDriver for backend browser automation and system-level validation of real-time features and server responses.
- **API Testing:** Applied Jest and Supertest to automate and verify RESTful API endpoints including authentication, CRUD operations, and error handling.

- **Bug Tracking & Test Planning:** Experience using Jira to report bugs, manage sprint tasks, and collaborate with developers on regression testing.
- **CI/CD Integration:** Gained hands-on experience working with Jenkins to trigger automated builds and test execution as part of a CI/CD workflow.
- Familiar with writing modular, reusable, and scalable test suites using configuration files (e.g., playwright.config.ts) and organizing test cases into maintainable structures.

Cloud & DevOps: AWS (Amplify, EC2, Elastic Beanstalk), Cloud Deployment, Hosting, Scalability ,CI/CD pipelines for automated integration, testing, and deployment (Render.com, AWS, Jenkins)

Tools & Workflow:

Docker, Junit 5, Git, GitHub, VS Code, Figma, Stripe, Google Pay Agile Development (Scrum, Sprint Planning, Iterative Delivery, Team Collaboration)

Other: UI/UX Design, Responsive Layouts, Typography, Error Logging, Rate Limiting, Role-Based Access Control