

# Milton Andrew Johnson

## Full Stack Developer

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### **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-client-1) 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, WebSocket's, Socket.IO

**Database:** MongoDB, PostgreSQL

**Cloud & DevOps:** AWS (Amplify, EC2, Elastic Beanstalk), Cloud Deployment, Hosting, Scalability, CI/CD Pipelines (Agile-based delivery using Render.com, AWS)

**CI/CD:** CI/CD pipelines for automated integration, testing, and deployment (Render.com, AWS)

**Tools & Workflow:** Docker, Git, GitHub, VS Code, Figma, Stripe, Google Pay, Agile Development (Scrum, Sprint Planning, Iterative Delivery, Team Collaboration)

**Other:** UI/UX Design, (Typography, Prototyping)) Responsive Design, Error Logging, Agile, Debugging

## Key Accomplishments – Full-Stack Web Developer Internship -Next Play Nation

Built a secure, scalable, and responsive real-time event and internship management platform. Delivered key features like a live event calendar (WebSockets/Socket.IO), admin panel with user/internship control, and role-based authentication. Worked in Agile sprints with the CEO and dev team, adapting to evolving requirements. Containerized with Docker and deployed to AWS using CI/CD pipelines for production-ready scalability and reliability.