Milton Andrew Johnson

Full Stack Developer

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SUMMARY

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

PROFESSIONAL EXPERIENCE

Full Stack Web Developer Internship
Next Play Na*on — *April 2025* –June 2025 - Completed | Live Project Internship Web App

CEO Recommendation Letter Internship

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 adjustments based on evolving requirements.
- Engineered a Live Event Calendar that supports real-time event publishing without requiring page reloads.
- Implemented real-time communication using WebSockets and 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 and Elastic Beanstalk to support REST APIs, live event broadcasting, and logging.
- Integrated authentication and authorization systems with role-based access control and session handling.
- Enforced API rate limiting to protect backend endpoints from abuse and ensure consistent performance.
- Designed a custom advanced error logging system for Admin Login, Dashboard, and Donations.
- 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 intervention.
- Containerized the full-stack application using Docker, enabling consistent local development and production deployment. Verified container execution via docker ps, confirming successful startup of both client (internshipnextplaynation-client1) and server (internshipnextplaynation-server-1) containers.

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

Full Stack Java Server-Side Spring Boot User Authentication Web App *Web App Deployed Live*
Nov 2023-Jun 2025
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 authen9ca9on, bcrypt password hashing, secure cookie storage, and Stripe payments. Implemented rate limi9ng, brute-force protec9on, and duplicate account preven9on. Developed full cart, checkout, and order flow with valida9on, structured error handling, and a responsive UI op9mized for mobile devices.

- Integrated **Stripe Elements** for seamless and secure payment form handling.
- Built full **shopping 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, and form validation.
- Delivered a consistent mobile user experience using navigation containers and image carousels.

EDUCATION

B.S. in Informa-on Technology — *Concentra9on: 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 **Tes2ng & QA Tools:**

- **Client-Side Testing**: Experienced in using 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:** Utilized 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:** Proficient with Jira for reporting bugs, managing sprint tasks, and collaborating with developers during regression testing.
- **CI/CD Integration:** Hands-on experience 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, Elas)c Beanstalk), Cloud Deployment, Hos)ng, Scalability ,CI/CD pipelines for automated integra)on, tes)ng, and deployment (Render.com, AWS, Jenkins)

Tools & Technologies:

Docker, JUnit 5, Git, GitHub, VS Code, Figma, Stripe, Google Pay

Development Methodologies:

Agile Development (Scrum, Sprint Planning, Iterative Delivery), Team Collaboration

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