Andrew Johnson

Full Stack Developer Applicant | Savannah, TX

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PROFESSIONAL EXPERIENCE

Full Stack Web Developer Internship

Next Play Nation — *April 2025 –June 2025 - Completed* | Live Project Internship Web App

Completed an internship 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.
- Delivered smooth, polished UI animations and responsive design optimized for all device types.
- 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.

SELECTED PROJECTS

E-Commerce Dog Store Web App *(MERN Stack)* See Project Live

Developed a full-stack e-commerce web application enabling users to browse, purchase, and review dog breeds of various sizes. Included a full admin dashboard and seamless UX features.

- Features: Stripe & Google Pay integration, category filters, Context API cart, dynamic search, secure login.
- UX: Image zoom, sticky nav, multi-select dropdowns, scroll-to-top, responsive layout.

Shoe Store E-Commerce App *(MERN Stack)*   *See Project 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)* [See Project 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 Univerity, Macon, GA

TECHNICAL SKILLS

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

Backend: Node.js, Express.js, REST APIs, GraphQL, WebSockets, 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

During my Full Stack Web Developer internship at Next Play Nation, I helped build a secure, real-time event and internship management platform with a fully responsive design and scalable architecture. I applied Agile methodologies throughout the development lifecycle by working in weekly sprints, collaborating closely with the CEO and development team, and adapting to evolving product requirements. I delivered key features in iterative increments, including a real-time event calendar (WebSockets/Socket.IO), a robust admin panel with full internship and user control, and advanced role-based authentication. Regular feedback from stakeholders guided continuous improvements, ensuring alignment with business and user needs. The application was containerized with Docker and deployed on AWS for production scalability, reliability, and CI/CD automation.