

Andrew Johnson

Full Stack Developer Applicant | Savannah, TX

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Career Objective

Passionate Full Stack developer with a strong foundation in web development technologies. Seeking an position to apply & expand my skills while contributing to dynamic websites..

Education

Middle Georgia State University | B.S.- Information Technology -concertation in Software Engineering (2023) | **Macon, GA.**

Relevant courses: Web Development, Software Engineering, Project Management, Software Security, Software Testing & QA.

Projects

Full Stack E-COMMERCE Shoe Store Web / Mobile App Project (March 2025)

MongoDB, Express & Node js, React, React lucide library | [Link to Project](#)

Developed a secure full-stack shoe store e-commerce application with MongoDB, Node.js, and React, implementing JWT authentication, bcrypt password hashing, secure cookie storage, Stipe Payment Integration, user authentication, product display , cart, order checkout to enhance security and user experience.

- MongoDB Connection Security – Uses environment variables (MONGODB_URI) to securely manage database credentials, preventing exposure in source code.
- Environment Variables Protection
- Rate Limiting & Brute Force Protection-Tracks failed login attempts and locks users out after 10 incorrect tries, preventing brute-force attacks, Enforces a **15-minute logout period** after repeated failed attempts.
- Duplicate Account Prevention-Checks if an email already exists in the database before allowing user registration, preventing duplicate accounts.
- Password Hashing- Utilizes bcrypt to hash passwords before storing them in the database, enhancing security against password leaks.
- JWT Authentication – Utilizes bcrypt to hash passwords before storing them in the database, enhancing security against password leaks, Sets tokens as **HTTP-only cookies**, preventing client-side JavaScript access and reducing the risk of XSS attacks.
- Secure Database Connection -Connects to MongoDB using useNewUrlParser: true and useUnifiedTopology: true to avoid deprecated security risks.
- Secure Cookie Storage – Stores authentication tokens in HTTP-only, secure, and same-site restricted cookies to prevent XSS and CSRF attacks.
- Cart Functionality- Validates if size and color are selected & added selected product
- Payment Form Handling- Stripe Elements to render a payment form
- Error Handling & Logging – Implements structured error handling to prevent sensitive data leaks in API responses while logging errors for debugging
- Mobile user design friendly.

React Native University Start Up Mobile App Project (Dec 24-Jan 25) –React Native, Pagination, image Slideshow, Navigation Container | [Link to Project](#)

Developed a website to enhance a demo university start up mobile app for users to experience topics like articles on important topics, latest news, student form registration & feedback to the staff members. Contains Animation, Pagination to re-route user, & Image Slideshow about campus.

- Responsive layouts & optimized user interfaces; styled components Stylesheet API
- Integrated dynamic article search functionality with filtering capabilities, enabling users to search and view articles with summaries and images.
- pagination system for seamless navigation between app screens | **image carousel** for visually engaging content
- Built reusable components like headers, footers, and navigation bars to streamline development and maintain consistency across screens.
- Mobile UI/UX Design: Applied StyleSheet for structured, visually appealing, and mobile-friendly layouts.
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- User feedback responses and contact form validation to submit on campus.

RealTime Full Stack Chat App-(Dec 2024- Dec 2024). Socket.io, Nodejs, WebSockets, Environment variables. State management, ReactJs

Developed a real time chat application using React for the frontend & Nodejs with Socket.io library on the backend, enabling instant bi-directional communication between client and server.

- Utilized **Socket.IO event listeners** for real-time messaging, user alerts, and chat reset functionalities.
- Configured **CORS policies** and environment variables to ensure secure and flexible deployment.
- Enhanced user experience with features such as chat timestamps, input validation, and dynamic chat rendering in the frontend
- Implemented **WebSocket connections** for seamless message exchange and state management for chat history using React's `useState` and `useEffect` hooks.
- Designed backend server logic to manage user connections, handle chat events, and implement chat flow with a predefined conversation array.

Popular Stock Market Web App-(Feb 2025). TypeScript, ReactJS, Git, GitHub, CSS, CSS3, HTML5

Developed a website that consolidates essential information on popular stocks, Retrieve company information from JSON file for user display. Informed users on key features to considered on investment on each company. Animation integrated for user experience. This site helps users make quick and informed investment decisions by offering key insights in an easily digestible format.

- TypeScript Interface- developed to retrieve data from JSON file.
- Managed Data in TypeScript Function Component throughout other components.
- UX-UI Laptop screens design

- Data retrieval using third-party APIs. Utilized animation to stylize site and enhance user experience
- State Management within function component, response & error handling.
- Scroll & slideshow animation to enhance user experience.

Recipe Search Web App Project (Jun 2024) -JavaScript, Regex, Git, GitHub, CSS, CSS3, HTML5 [Link to project](#)

Developed a website allowing users to explore recipes from various cultural origins, featuring meal history and nutritional information. This platform addresses the challenge of finding diverse and informative recipe resources, making it easier for users to discover and prepare culturally rich meals.

- Asynchronous Fetch API
- User Form Validation on Landing Page – redirection on successful validation to Login, & Welcome domain
- UX - Informative Table Modal on weekly meal plan- includes servings, minutes to cook, calories: per serving, carbohydrates, fat, & protein, etc.
- Local Storage Management for user cookies preferences- ensuring sensitive data is not stored insecurely.
- Session State Management. - Memory cookies are option to be deleted by User if desired before exit of web app.
- Chat Pop widget to enable user interaction with addition of a search filter

Skills:

- TypeScript, JavaScript, Mongo DB Atlas, SaaS , HTML5,, CSS3, Express, ReactJS, React Native , Nodejs, WebSocket , Regex, JSON, Git, GitHub. Vs Code, **User** Interface (UI) Design & User Experience (UX), Web Design. Figma