John Winston Colby
Senior Software Developer

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I am a **Senior Full Stack Developer,** mainly focusing on Frontend, with over **12 years of experience** specializing in **React**, **Next**, and **React-Native** for front-end development, alongside extensive experience with **Node.js**, **Express**, and **GraphQL** for back-end services. With over 12 years of experience working on both web and mobile applications, I have successfully delivered projects using **React.js**, **Next.js**, **React Native** and **Node.js**. My expertise extends to **building scalable APIs**, **real-time data solutions**, and **cross-platform mobile applications** leveraging frameworks like **Ionic** and **Flutter**. I am committed to continuous learning and staying up-to-date with the latest technologies.

SKILLS

- **Core Frontend Frameworks & Libraries:** React.js, Next.js, React-Native
- **Core Backend Frameworks:** Node.js, Express.js, NestJS
- **UI Development & Styling:** CSS, SASS (SCSS), Tailwind CSS, Material UI, Daisy UI, Styled Components, Emotion
- **Component-Driven UI & Interactivity:** Framer Motion, Formik, React Hook Form
- **Responsive & Dynamic Interfaces:** HTML, TypeScript, JavaScript, Responsive Design
- **State Management:** Redux Toolkit, Zustand, React Query.
- **Database Management:** PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Dynamodb, Firebase Firestore
- **API & Data Handling:** GraphQL, REST APIs, Apollo Client, SWR
- **Authentication & Security:** JWT, OAuth, NextAuth.js, Passport.js, Role-Based Access Control (RBAC)
- **Unit Testing:** Jest, Jasmine
- **End-to-End (E2E) Testing:** Cypress
- **Component & UI Testing:** Storybooks
- **Agile Methodologies:** Scrum, Kanban
- **Collaboration & Workflow Tools:** JIRA, Trello, Asana, GitHub, GitLab, Slack, Microsoft Teams
- **UI/UX Design & Prototyping:** Figma, Adobe XD
- **Containerization & Orchestration:** Docker, Kubernetes
- **Caching & Performance Optimization:** Redis, Memcached, CDN Optimization
- **Serverless & Cloud Computing:** AWS (Lambda, ECS Fargate, EC2, S3), GCP (Cloud Functions, Cloud Run, Compute Engine, Cloud Storage)

Senior Software Developer

DOOR3, New York, NY   Apr 2021 – Apr 2025

- Architected and led development of scalable, server-rendered applications using **Next.js 14** with **App Router**, **Server Actions**, and **Incremental Static Regeneration**, enabling lightning-fast page loads and SEO-optimized delivery across multiple markets.
- Utilized **React 18's concurrent rendering features** (e.g., `Suspense`, transitions, lazy loading) to enhance performance and responsiveness across dynamic UIs.
- Designed and maintained a **modular component library** with **Tailwind CSS**, following atomic design principles, enabling consistent theming and rapid prototyping across micro frontends.
- Implemented SSO login flows using **OAuth2/OpenID Connect**, ensuring secure and seamless authentication for enterprise users.
- Implemented **advanced state management** using **Zustand**, **MobX**, and **React Context**, supporting reactive UI updates and background async data flows.
- Integrated **RESTful** and **GraphQL** APIs with secure token-based authentication, caching strategies, and optimistic UI updates for seamless user experiences.
- Automated frontend pipelines with **GitHub Actions** and **Playwright**, covering linting, unit testing, visual regression testing, and staging previews for each pull request.
- Applied **Core Web Vitals** analysis and tools like **Lighthouse**, **React Profiler**, and **Webpack**

Bundle Analyzer to optimize performance, reduce TTFB, and improve LCP/FID scores.

- Collaborated with backend teams to define API contracts and optimize data payloads; contributed to full-stack workflows including serverless API routes and middleware logic in Next.js.
- Connected the frontend with **Python-based backend APIs** via secure fetch wrappers, handling async calls, error boundaries, and UI state sync with optimistic updates.
- Deployed production builds via **Vercel** and **AWS**, leveraging edge functions, CDN caching, and asset optimization to deliver globally distributed, low-latency experiences.

Senior React & Next Developer

Orases, Frederick, MD   Mar 2017 - Mar 2021

- **Developed a next-gen cybersecurity management dashboard** using **React.js, Next.js, Redux**, and **RTK Query**, enabling IT administrators to manage real-time security policies with instant API-driven synchronization and state updates.
- **Optimized security event logging workflows**, implementing **React Suspense and lazy loading**, reducing log analysis load times and improving **forensic investigation efficiency**.
- **Implemented a high-frequency, real-time ransomware attack detection system**, using **React Query's background revalidation and WebSockets**, ensuring **immediate threat alerts** with zero latency.
- **Developed an AI-powered threat analysis tool**, leveraging **Next.js API Routes and TensorFlow.js**, enabling predictive security alerts based on **anomalous login behaviors and user activity trends**.
- Built and **integrated GraphQL APIs using Apollo Server and TypeGraphQL** in **Node.js/NestJS**, enabling efficient data fetching and fine-grained control over response shape.
- **Implemented Storybook for a reusable component library**, creating **100+ modular UI components** using **Styled Components and Emotion**, reducing **frontend development time.**
- **Developed high-performance, secure authentication flows** using **Formik and React Hook Form**, integrating **Yup schema validation** for robust **role-based access control (RBAC)**.
- Developed and maintained **unit and integration tests** for React components using **Jest** and **React Testing Library**, ensuring confidence in UI behavior across edge cases and user flows.
- Integrated **Google Analytics** (GA4) and Google Tag Manager into **React and Next.js applications** to capture user behavior, engagement metrics, and conversion events.

Full Stack Developer

Cleveroad, New York, NY   Mar 2014 - Feb 2017

- **Led the end-to-end development of Greenlight Dating's mobile application** using **React Native, TypeScript, and Expo**, optimizing performance and ensuring a smooth, engaging user experience.
- **Implemented the unique three-tier "Greenlight, Yellowlight, Redlight" rating system**, leveraging **React Native Animated API and Reanimated** to create seamless UI transitions and interactions.
- **Integrated Firebase for real-time chat and user activity tracking**, enhancing matchmaking efficiency and reducing response times.
- **Optimized React Native performance** by implementing **Hermes JavaScript Engine**, reducing app startup time and improving scroll performance.
- **Developed a highly performant dark mode toggle** using **React Native Appearance API and AsyncStorage**, ensuring smooth transitions and battery efficiency.
- Leveraged **Redis** for advanced use cases including **caching**, **session management**, **rate limiting**, and **job queueing**.

- Integrated **PostgreSQL** and **MongoDB** for relational and NoSQL use cases, optimizing database queries and indexing for large data sets.

Software Developer

Delta Systems, Scottsdale, AZ   May 2012 - Jan 2014

- Developed and maintained interactive web applications using **JavaScript**, **jQuery**, and **AJAX** to enhance user experience and responsiveness.
- Built and optimized dynamic UI components with **HTML5, CSS3, and JavaScript**, ensuring a seamless and modern design.
- Worked with **Node.js** on backend services to manage API endpoints and process business logic.
- Improved front-end performance by implementing efficient **DOM manipulation** and reducing **JavaScript execution time**.
- Integrated third-party APIs and payment gateways, such as **PayPal and Stripe**, to streamline e-commerce transactions.
- Utilized **JSON and RESTful APIs** for data exchange between the frontend and backend services.
- Developed and maintained **custom JavaScript plugins** to extend website functionality and improve usability.
- Debugged and optimized JavaScript code using **Chrome DevTools**, ensuring smooth performance across different browsers.
- Worked closely with UX/UI designers to implement interactive features, improving customer engagement and conversion rates.
- Followed Agile methodologies, participating in **daily stand-ups, sprint planning, and code reviews** to ensure project success.

EDUCATION

University of Florida (2008 - 2012)

During my four years at the University of Florida, I immersed myself in a rigorous Computer Science program that provided a strong foundation in both theoretical and practical aspects of the field. My curriculum covered a wide range of subjects including algorithms, data structures, software engineering, database management, computer networks, and artificial intelligence.