Kolten Edward

Software Engineer

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SUMMARY

A solo-preneur having built and brought a retail industry software solution to market for an identified issue with a potential user base of 125.4 million.

PROJECTS

CouponCatch - (Typescript, Ionic React, NodeJS, Express, Firebase, Document AI, Stripe)

Skypher LLC • app.couponcatchapp.com • January 2023 - January 2024

A Saas built for solving the issue of manually tracking which Costco purchases are eligible for coupon adjustment (cash back) opportunities.

- Utilized Ionic React for streamlined cross-platform app development, enabling single codebase deployment for web, iOS and Android, reducing future development time and costs by 46%.
- Replaced SSR for SSG on Next.js landing page, cutting first contentful paint from 2.3s to 924ms a 60% improvement.
- Implements TypeScript across the application to enhance scalability and maintainability, resulting in a 25% decrease in runtime errors and a more robust codebase.
- Integrates AWS continuous integration/CD pipeline for agile methodology with code versioning tools, leading to a 19% faster deployment cycle and more organized development process.
- Optimizes React app performance by implementing asynchronous loading and code-splitting, reducing Typescript file size by 20% on initial load.
- Implements Firebase Authentication for user signup, reducing development time by 1 month and enhancing security with protected routes only accessible to registered users.
- Executes global state management with Pullstate, achieving more efficient state updates and a 10% reduction in lines of code over previous useContext methods.
- Implements MVC architecture in the Node Express backend to enhance application scalability and organization, leading to a more structured codebase and an improvement in maintenance efficiency.
- Implements RESTful web services in the API backend to allow users to add, view, and delete receipts, ensuring efficient and standardized communication between the front-end and back-end systems.
- Integrated Google Cloud Platform's Document AI for advanced image-to-text optical character recognition (OCR), significantly enhancing data capture capabilities and automating content digitization.
- Engineers a specialized Regular Expression algorithm to precisely extract relevant data from OCR outputs, achieving a 25% improvement in accuracy and efficiency in data handling.
- Pioneered a JSON-returning REST API backend solution for clean transfer of image-derived data to front-end.
- Designs and implements custom Express event handler webhooks for Stripe integration ensuring PCI DSS compliance within the financial services industry.
- Employed Cypress into development workflow for unit testing, reducing debugging time and achieving 76% test coverage across the front-end, ensuring robust and reliable code.

CarHub - (Typescript, React, Next.js, Tailwind CSS)

nextjscar-rental.vercel.app • August 2023 - September 2023

A React, Next.js responsive front-end showcasing rental cars available with interactive searching, and server side rendering for great SEO performance.

- Leveraged Next.js features for optimal performance, transitioning from Client-Side Rendering (CSR) to Server-Side Rendering (SSR), which increased Google Lighthouse SEO score from 79 to 100, enhancing visibility and user accessibility.
- Modernized the CSS with Tailwind CSS, streamlining the styling process over traditional per-component CSS files, resulting in a 41% reduction in development time and a more maintainable and scalable codebase.
- Consumed Rapid API for vehicle images, adhering to RESTful API best practices, which enabled real-time content delivery, improving user engagement and experience.
- Implemented a mobile-first design strategy using Next.js and Tailwind CSS, ensuring the CarHub application delivers a seamless, responsive user experience across all devices, leading to an increase in mobile user retention.

MusicPlayr - (Vite, JavaScript, React, Redux-thunk)

koltenedward.com/music-app/index.html • May 2023 - June 2023

A Vite built React music app, fully responsive, utilizing Redux-thunk for advanced state management.

- Strategically chose Vite for React development over Create React App, harnessing Vite's superior build speed and leaner configuration, resulting in a 42% faster build times.
- Integrated AudioSession API to handle now-playing information and hotkeys for next/previous tracks, enhancing user control and interaction with the music app, particularly for users seeking a hands-free experience.
- Integrated repeat and shuffle functionalities into the music player, utilizing Redux state management techniques to provide users with a customizable listening experience, increasing user interaction and satisfaction.

Alves Athletics - (Bootstrap, JavaScript, HTML, CSS)
koltenedward.com/halves/index.html • February 2023 - March 2023
A Javascript multi-page landing for a business owner seeking their first entry into the digital landscape.
- Instantiated CSS and SCSS to implement responsive design principles, ensuring that the application provides a consistent and engaging user experience across a variety of devices and screen sizes.
- Enhanced user engagement and marketability by implementing moving WEBM backgrounds, creating an immersive and visually appealing UI and UX collaboratively with the client.
- Accelerated development process by integrating Bootstrap for responsive layouts and pre-designed components, ensuring quick and consistent implementation of design elements and reducing time to launch by 33%.
- Delivered final product ensuring customer satisfaction from end to end.

EXPERIENCE

Front End Supervisor
Costco Wholesale   **Oct 2017 - Present, Superior, CO**
- Achieved quarterly goal of 50 members-per-hour across a team of 21 cashiers for 8 consecutive weeks resulting in productivity increase of 12% during that time frame.
- Improved performance metrics and conducted regular one-on-one sessions with a team of 9 employees, resulting in an 8% increase in executive memberships year-over-year.
- Played a key role in customer facing strategies, increasing executive signups by 8% YoY, which led to higher customer retention through a targeted marketing campaign using advanced CRM tools.

EDUCATION

Associate of Arts
North Iowa Area Community College • Mason City, IA

SKILLS

Platforms: AWS: API Gateway, Cloud Watch, Cloudfront, EC2, ELB, RDS, Route 53, S3, SNS, SQS
GCP: Document AI, Firebase Authentication, Firestore, Functions, Hosting
Shopify, Wordpress
Software Tools: Adobe CS, Cypress, Figma, GitHub, Google Analytics, JIRA, npm, Postman, VisualStudio Code
Languages: CSS, HTML, JavaScript (ES6+), Python, Typescript, XML
Technologies: Agile Development, API Design and Development, Bootstrap, Continuous Integration, Continuous Deployment, Design Patterns, ECMAScript (ES6+), ESLint, Express.js, Git, GraphQL, jQuery, MVC, MongoDB, MySQL, Next.js, nginx, NoSQL, NodeJS, OAuth, OOP, React, Redux, REST, Sass, Stripe API, Tailwind CSS, Web Services, Webpack