COLE REARDON

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Education

Northeastern University   **September 2019 – May 2023**
Bachelor of Science in Computer Science and Business Administration   *Boston, MA*

Relevant Coursework

- Software Engineering
- Information Visualization
- Computer Graphics
- Database Design
- Computer Systems
- Algorithms and Data
- Object Oriented Design
- Discrete Structures

Experience

RECUR Forever, Inc.   **January 2022 – July 2022**
Frontend Engineer   *Boston, MA*

- Delivered 4 seamless websites by fabricating over 30 React components from UI designs for superior UX.
- Boosted developer efficiency 1.5X by refactoring and standardizing 5 major design system components, resulting in a 50% reduction in development time.
- Maximized customer attention and engagement by creating a real-time sale drop counter via internal APIs, driving a 25% increase in customer sign-ups and achieving a 1-minute product sellout.
- Prevented website downtime by resolving 10+ bugs through rigorous Jest unit testing to reduce new bug tickets by 90%.

Fidelity Investments   **January 2021 – July 2021**
Software Engineer   *Boston, MA*

- Conceptualized, developed, and implemented a business visualization tool, delivering time savings of over 24 hours annually for each business unit.
- Led a team of 2 engineers in crafting a Java, HTML, and CSS presentation generator to save over 3 hours per presentation for each business unit.
- Designed and executed a survey-style solution to replace phone-based client transactions, yielding 2-hour time savings per call and annual cost reductions of $50K.

Projects

Personal Portfolio | *Astrojs, HTML, CSS, TypeScript, Netlify, Figma*   **August 2023**

- Designed a well-rounded portfolio in Figma by employing UI/UX principles, blending aesthetics with functionality.
- Orchestrated the development of 5 distinct pages, each enriched with bespoke elements, animations, and content.
- Ensured accessibility by rigorously testing the site with 4 web browsers for impeccable mobile and desktop performance.
- Leveraged Netlify for website hosting, and skillfully executed form submission handling to ensure robust functionality.

Code4Community - Project Constellation | *JavaScript, React, CSS*   **May 2023**

- Simplified UX with a custom React hook for concurrent filtering, search, and sorting of 200+ records.
- Enriched functionality through 4 TypeScript-based React pages, empowering a seamless web experience.
- Elevated project quality by conducting several thorough pull request reviews to support peers' contributions.

Atlascople | *React, Leaflet, Chakra UI*   **April 2023**

- Implemented an integration between Nominatim API and OpenStreetMaps API, enabling comprehensive data retrieval.
- Resolved technical hurdles, enhancing UX by adapting to Nominatim API's variations for accurate results.
- Empowered visitors to comprehend Boston's history in an engaging way for greater historical understanding.

Gym Traffic Tracker Widget | *JavaScript, Apple JavaScriptCore, Scriptable*   **February 2023**

- Engineered a web scraper to extract gym capacity data and transform it into JSON format for enhanced usability.
- Developed 2 intuitive gym capacity widgets, delivering real-time data tailored to distinct user needs.
- Leveraged JavaScript and Apple native APIs to craft real-time updating homescreen widgets with Apple-like aesthetics.

Ray Tracers - Online and Offline | *TypeScript, WebGL, HTML*   **July 2022**

- Engineered a TypeScript-based offline ray tracer from the ground up, including 4 material options to render .obj files.
- Designed an online, dynamic, and interactive ray tracer using WebGL shaders, incorporating real-time rendering.
- Optimized efficiency with a 50% processing time reduction by integrating a bounding volume hierarchy structure.

Technical Skills

Languages: JavaScript & TypeScript, Java, HTML, CSS, C, Python, SQL, Swift
Developer Tools: VS Code, Eclipse, IntelliJ, Firebase, XCode
Technologies/Frameworks: Linux, Git, Jest, React, Next.js, Astro, Altair, TailwindCSS, WebGL
Hobbies: Film Photography, Travel, Fitness, Board Games, Skiing, Language Learning