




Ramanath Madiwal

Senior Front End Engineer
10+ Years Experience

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Technical Skills

Languages :

Javascript, Angular, Angular Material, TypeScript, Rxjs, NgRX, Redux, Semantic HTML, CSS, SCSS, Git, Data structures and algorithm-DSA, Design Patterns.

Standards:

CSS:- BEM.

Web Accessibility:- WCAG 2.1 AA compliance.

Tools/Frameworks:

Design: Figma.

Unit Testing frameworks:- Jasmine-karma, Jest.

CI/CD Devops Systems:- Github, Jenkins, AWS(basics), Nginx.

Log Analysis:- LogRocket, Mixpanel, Google Tag Manager.

Code:- Github, Github-Copilot.

Agile Project Management :- Jira, Confluence.

Security:- Snyk, Orca.

Accessibility:- Lighthouse, Axe .

Experience/Projects

Company:- Kaplan Inc

April 2019 – Present | 5 Yrs 4 Months

Bengaluru, India

Position:- Senior Software FrontEnd Engineer 2

Domain:- Education Tech

Stack :- Angular 8+, Typescript, Rxjs, NgRX, SCSS, GraphQL

Role/Responsibilities:-

1. Participated in the initial ideation and requirement gathering of the product.
2. Took ownership of module development and maintenance.
3. Conducted code reviews to ensure the delivery of high-quality products.
4. Collaborated with product managers, UX researchers, designers, psychometricians, data scientists, teachers, and authors to refine products and services.
5. Managed application deployments for production releases and addressed production issues as needed.
6. Adhered to Agile methodologies.
7. Guided and mentored junior developers.
8. Achieved 95% unit test coverage and adhered to other coding standards.

Project 1 - USMLE Prep TestUI

Work:- Led the end-to-end development of a key module for the USMLE Prep platform, building it from the ground up and delivering it on time.

Impact:- This module was part of a major product launch for Kaplan, attracting over 1 million registered users and generating more than \$1 million plus in revenue.

Learning:-

- Engineered a modular product architecture with a reusable shared library, later utilized across multiple projects.
- Developed a CSS design system adopted by various teams for different initiatives.
- Implemented event tracking with Mixpanel, enabling insights into user engagement and feature utilization.

Project 2 - PMBR Prep Test + AMP Page

Work:- Spearheaded the complete development of a key module for the PMBR Prep Test, delivering it on schedule. This project involved migrating and updating the platform, which was built from scratch in Angular with a fresh UI/UX design.

Impact :- The revamped UI design successfully attracted a new user demographic, leading to a significant sales increase of over \$2 million.

Learning :-

- Implemented Single Sign-On (SSO) within the user interface.
- Led the ideation and iterative design process for UI/UX, incorporating feedback from user testing.
- Managed API integration with two different systems, ensuring seamless connectivity across endpoints.

Project 3 - CFA Prep TestUI

Work :- Developed a new user interface for a CFA test simulation from scratch, completing the project in a record time of 3 months.

Impact:- This was the first product successfully launched on Kaplan Professional's new ATOM platform, featuring the first-ever CFA Exam simulation interface for all levels. The project safeguarded over \$1 million in revenue, contributing to a product with a total value of over \$60 million.

Learning:-

- Gained experience with basic GraphQL using Apollo Client, which reduced API response times by 42% compared to standard Angular API calls.
- Developed seamless authentication user flows, from the login page to the final module, using a custom atom-auth library for JWT token management.

Project 4 - Exam-Simulator

Work :- Developed an application that enabled authors to preview their content exactly as it would appear in the UI, resolving a critical issue where incorrect content setup often led to application errors and poor user experience.

Impact :- This solution significantly reduced content-related issues, leading to a much-improved user experience and skyrocketing customer satisfaction.

Learning :-

- Implemented template-based rendering tied to product codes, allowing for customizable elements like headers and footers across different products.
- Utilized a design system to streamline UI changes, ensuring consistency and efficiency across multiple product lines.

Career Break

Sept 2016 – March 2019 | 2 Yrs 7 Months

- I took a career break to focus on recovering from significant health challenges related to blood pressure management.

Company 2:- HCL Technology

July 2011 – Sept 2019 | 5 Yrs 3 Months

Bengaluru, India

Position:- Senior Software Engineer

Domain : BFSI- Banking & finance

Client Name:- TP ICAP Group plc

Stack :- Java , Swing, SVN

Project : Swaps

Work :- Led the implementation of multiple user interface modules for the Product Equity Swap for Options at ICAP (Tullett Prebon).

Impact :- The Product Equity Swap was utilized by brokers globally, contributing to over \$1 million in additional revenue for the client.

Learning :- Acquired domain expertise in swaps, applying this knowledge to develop complex logic for various strategies.

Behaviour Skills

- **Collaboration and Teamwork:** Worked closely with a team of developers, designers, and product managers to deliver high-quality software solutions.
- **Communication:** Regularly communicated project status and technical details to non-technical stakeholders.
- **Problem-Solving:** Successfully identified and resolved complex bugs and performance issues in a timely manner.
- **Adaptability:** Quickly adapted to new development frameworks and methodologies.
- **Time Management:** Efficiently managed multiple tasks and projects, consistently meeting deadlines.
- **Attention to Detail:** Ensured high standards of code quality through meticulous testing and code reviews.
- **Critical Thinking:** Analyzed data to drive decisions and improve software functionality.
- **Leadership:** Led a project team to complete a major software upgrade, mentoring junior developers throughout the process.
- **Resilience:** Overcame challenges in a fast-paced environment, maintaining a positive and solution-oriented attitude.
- **Curiosity and Continuous Learning:** Continuously explored new technologies and completed online courses to enhance skills.

Awards & Achievements

O2 League of the Extraordinary Award - December 2016

- Received award by HCL for continuous high performance for consecutive 2+ years.

Live Wire Award - December 2013

- HCL's R & R award, with comment "100% Success" for the extraordinary contribution to the project. This award is given to the top performer in a Project for his extraordinary and excellent contributions towards projects in a Quarter.

Kaplan Star Award - December 2023

- Kaplan awarded this for individual contribution for the CFA Project.

Education

DayanandaSagar College of Engineering VTU

Grade point: 8.25 - Distinction

Bachelor of Electrical & Electronics Engineering Bengaluru, Karnataka

Aug 2007 – Sep 2011