Milad Sadeghi
FrontEnd Software Engineer

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WORK EXPERIENCE

FrontEnd Software Engineer   Fulltime, SwiftSky (Sep 2019 - Sep 2023), 4yrs 1mo

- Maintaining a large and complex JavaScript codebase was difficult due to the lack of type safety. I spearheaded a team of three engineers in a comprehensive migration from **JavaScript to TypeScript** which modernized whole complex codebase and solidified its overall **maintainability**.

- Insufficient test coverage can lead to bugs in production, which can cost businesses time and money. I improved test coverage by writing and maintaining comprehensive unit, integration, and end-to-end tests using **jest** and **cypress** which increased test coverage from **60% to 87%** and reduced the number of bugs in the production.

- Web app performance can be degraded by unnecessary loading of resources and re-rendering of components. I optimized the performance by using **react** lazy loading and **component memoization** which reduced the web app loading time by 10%.

- It can be difficult to ensure that components are reusable, well-documented and easy to use. I worked on a custom component library and applied design standards using **storyBook** and **styledComponents** to make a well-designed and easy to use component library to help business to save time and money on development costs.

- Prop drilling can make components difficult to maintain and reuse. I refactored complex components such as modal window by applying the **compound component pattern** which reduced the number of props that needed to be passed to components and made them easier to maintain and reuse.

- Configuring CI/CD pipelines can be complex and time-consuming. I configured a CI/CD pipeline for **cypress** on **github actions** to test web app on various web browsers which automated the testing process and saved the company testing costs.

- Writing and maintaining end-to-end tests can be time-consuming and repetitive. I implemented custom commands for **cypress** to make tests more efficient and reusable which reduced the time spent for writing and maintaining end-to-end tests.

SKILLS

Languages and libraries	:	JavaScript - TypeScript - HTML - CSS - SCSS - Tailwind CSS - CSS Modules - Styled Components - React - Redux - React Router - React Query - StoryBook - React Testing Library - Jest - Cypress
Dev Tools and technologies	:	RestAPI - Git - GitHub - Supabase - Linux - CI/CD - Unit/Integration/E2E Testing - Vite - Webpack
Other skills	:	Leadership - Scrum - Algorithms - Data Structures

VOLUNTEERING

Programming Instructor   Oct 2023 – Present

- I passionately teach and mentor junior frontend developers on the TypeScript language through a Discord server

Content Creator   Apr 2019 – Present

- I wrote and published a lot of technical blog posts about JavaScript, TypeScript, React and Python on hashnode , medium and virgool platforms

OpenSource Contributor   Mar 2019 – Present

- I built several repositories such as feip and lcrs to help other developers get prepared for technical interviews
- I refactored the codebase of fprime project which is the flight software of NASA mars helicopter
- I developed new features for scipy project such as khatri-rao matrix product