# Milad Sadeghi

**FrontEnd Software Engineer**

Mobile: +1 (717) 219 7997

Email: MiladSadeghiDM@gmail.com

Personal Website | LinkedIn | GitHub | Blog

## Summary

Software engineer with 5+ years of experience, expertise in **JavaScript**, **ReactJS**, and a passion for helping other developers and sharing knowledge through **blog posts** and **open source projects**. **Eager to learn** and **teach** and **adapt to new technologies**, with **strong communication** and **problem solving** skills.

## Experience

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

- 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.
- 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.
- 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.
- 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.

**Computer Vision Engineer**      Freelance (Sep 2017 - Feb 2019) 1yr 6mos

- I built a high resolution image dataset in order to feed GANs
- I designed and developed computer vision based security systems such as facial recognition
- I trained a neural network on diffusion and perfusion MRI to perform brain tumor segmentation

## Skills

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|---|---|---|
| **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** | : | Algorithms - Data Structures - Scrum - Collaboration - Communication - Remote Development |

## Volunteering

**Programming Instructor**      Oct 2023 – Present

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

**OpenSource Contributor**      Mar 2019 – Present

- I built several repositories such as feip and lcrs to help 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

## Blog Posts

- Typescript zero to mastery tutorial series
- Introduction to dynamic programming and memoization
- A Guide to useEffect Hook in React