Mohammad Bagher Abiat

Web Developer

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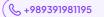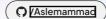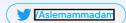
Profile

I am a web enthusiast who can help your lovely team to break challenges and reduce the curtails throughexploring and creating new technologies in the space.
The challenges around web performance and developer experience interest me and keep me excited! Challenges like React rendering issues, HTML performance, Server-side-rendering related patterns,asynchronous NodeJS and Javascript Testing.

Education

Mathematics and Physics Diploma, Allame Tabatabaei school

Computer Science, Azad University

Skills

HTML | CSS   Javascript | Typescript (Concurrency, Multithreading, ...)

ReactJS (Hooks, State management, Performance, Concurrent rendering)

NodeJS (Non-blocking code, Concurrent code)   Testing (TDD, E2E, ...)

Databases | ORM (Postgresql, Prisma)

Teams

Poimandres, Jotai, Valtio and Zustand

Vitest-dev, Vitest and Tinyspy

JSPM, jspm.org, CLI and other products

Projects

Jotai, Core maintainer

Primitive and flexible state management for React

◻️ Primitive and flexible atomic state management for React with more than 1,000,000 downloads on npm! It's the 3rd project on Javascript rising list .

Responsibilities :

• Create and maintain different integrations like jotai/query
• Improve devtools utils like useGotoAtomsSnapshot and useAtomsDevtools
• Optimize renders in different edge cases
• Write tests for jotai atoms and utils

Vitest, Team member and maintainer

Blazing Fast Unit Test Framework

◻️ A Vite-native test framework. It's the 8th project on the Javascript rising list ! With more than 2000 starts in the first week of release!

Responsibilities :

• Implement expect matches
• Maintain Tinylibs for Vitest
• Create a util for Browser testing

Tinyspy, Author

Minimal fork of nanospy, with more features

◻️ A minimal library for spying in testing, with no dependencies, used in Vitest's core

Responsibilities :

• Make a light-weight spy functions
• Maintain an easy to use API for testing

Tinypool, Author

A minimal and tiny Node.js Worker Thread Pool implementation, a fork of piscina, with fewer features, smaller size (38KB), better memory consumption for relying on physical cores instead of logical cores, used in Vitest's core

Responsibilities :

- Reduce Install size from 7MB to 38KB
- Increase performance through having minimal APIs
- Eliminate workers clash and conflicts with Mutex-like solutions
- Support diff erent NodeJS versions for user compatibility
- Continue reducing the Install size and keep maintaining the repo for Vitest

Tinybench, Author

A simple, tiny and lightweight benchmarking library!

Run benchmarks in multiple JavaScript runtimes, using an API that is completely based on the Web APIs with proper timing using process.hrtime or performance.now . This project is the core part of the vitest benchmarking tool.

Responsibilities :

- Maintaining Tinybench for a popular project like Vitest
- Investing in an extensive API design
- Keeping a minimal and light-weight state for the project

Roles

Alibaba, Senior Front-end developer   📅 2022 - present

Alibaba is the largest and most reliable website for online purchases of the plane, train and bus tickets in Iran.

Responsibilities :

- Working on a huge Vue and Vite codebase
- Reducing bundle size with Vite plugins
- Implementing reliable and performant A/B tests for millions of users
- Handling Technical Debts as a Senior developer through collaborating with other developers
- Creating Strapi endpoints to work with the marketing teams

JSPM, Consultant   📅 2022 - present

JSPM provides a module CDN and package management for import maps, allowing
any package from npm to be loaded directly in the browser fully optimized without further tooling.

Responsibilities :

- Creating the off icial CLI app for JSPM
- Bringing API design ideas into the product as a consultant
- Working on the off icial Generator
- Helping with Rust codebases for Chomp

Coursee, Tech Lead   📅 2020 - 2022

A technology learning web app and startup targeting Arabic countries, with modern solutions for better learning!

Responsibilities :

- Initializing the project with proper and modern technologies
- Using and working on a new-generation RPC called Telefunc targeting a better collaboration between Front-end and Back-end developers
- Moving the project to suitable database technology based on Postgresql and Prisma
- Handling the Client-side and the Server-side of the project with modern Vite projects
- Fixing conflicts between the project members and bringing more developers to collaborate

Fungible Systems, Senior Javascript developer   📅 (freelancer),2021

We are Fungible Systems. We are a design and engineering studio on a mission to drive web3 forward.

Responsibilities :

- Create Svelte integration for Stacks Library
- Write modern tests with stronger fetch mocks and Mocking Libraries
- Migrate tests from Jest to Vitest
- Write CLI apps that generate source code based on the library

Genie.xyz, Senior Front-end developer   📅 `(freelancer),2021`

▪ Discover, buy, and sell NFTs across marketplaces

Responsibilities :

- Generate state machines and UI states with Zustand
- Create UI components with Vanilla-extract and Sprinkles
- Optimize UI state using Zustand best-practices
- Handle Data between NextJS Data-fetching methods and UI state

Gigmade, Front-end developer   📅 2020

▪ gigmade is innovation and IT company. We build custom web soft ware to improve how you work together on innovation projects.

Responsibilities :

- Refactor complicated UI states that are implemented with React state hooks
- Move the web-app frame rate from the 15–20 range to the 59–60 range
- Analyze the UI state and improve and constrict it