

Mohammad E. Forutan

Software Engineer

Phone: 09330224893 Email: moh.forutan@gmail.com DoB: 19 . 9 . 1997
Military Service: Served Location: Iran, Tehran

PROFILE

Front-end developer with over five years of experience creating user-friendly websites. Skilled in building fast and efficient web applications. I enjoy solving problems and staying up-to-date with the latest technologies.

EXPERIENCE

Front-End Engineer

Bale Messenger 1401 – 1403

Developed new features and optimized performance for Bale's clients. Gained expertise in frontend development, including state management, UI design, cross-platform compatibility, and performance optimization.

I worked on new features for Bale web client including

- New voice recording UI, and improving voice encoding issue (especially on iOS devices)
- Web push notification which includes lots of challenges from API calls and caching to keeping order of incoming push events.
- Implementing client site routing. Before this all routes were stored as redux state, adding browser history routing improved user experience. It wasn't trivial and needed a lot of refactoring
- multi-chunk file uploads. Which makes file uploading more reliable.
- Migrating all API calls from grpc-web to ts-proto. And removing lot of duplicated code Which caused a remarkable reduction in bundle size.
- Implementing new UI for searching in messages
- Adding rspack web bundler to dev mode which improved developer experience.

I also contributed to the Android client by developing new features and fixing some bugs like

- Go to first message of chat feature which I implemented it both on android and web.
- Add new "is typing" logic like "user is sending file" or "user is choosing GIF". Which I developed this feature both on web and android
- Also there were couple of bugs in loading more messages and going to the bottom of chat on android client which caused client to stuck on load more infinite loop. These bugs were very old and finding it wasn't trivial.

And lot of bug fixes.

Front-End Engineer

3gaam institution 1400 – 1401

Developed front-end for educational consulting app using ReactJS.

- Rewriting course selection service for national entrance exam with VanillaJS. optimizing performance and user experience.
- I implement a code generator for converting swagger file to code which improved development experience.
- Improved chat functionality by refactoring into shared package. And Improving call feature.
- Implementing centralized auth to make all of services available through one login.

- I added some tests to code in order to make app more reliable. Including e2e and unit tests.

Front-End Engineer

Vakiljo 1398 – 1399

I began my career at Vakiljo, a legal startup connecting clients with attorneys. I developed their website using React. While the code didn't reach production, I gained valuable experience in software development and collaboration.

EDUCATION

Master of Computer Architecture

Iran University of Science & Technology

1398-1399 Tehran

I studied how computer processor work and what are different architecture and techniques used to improve computers performance. During this time I worked on some lesson projects including

- Implementing cache systems using Verilog
- Implementing GPU simulation with C++

Bachelor of Software Engineering

Imam Khomeini international University

1394-1398 Qazvin

Focused on designing software that is optimized, scalable, and flexible. During this time I worked on couple of projects including

- Android app for map coloring algorithm with Java
- Java based Desktop Enterprise application using JavaFX,
- website using PHP with Laravel Framework
- And many other small projects.

I also expand my skills on computer algorithms by participating in ACM programming contest as a part of University team.

TECHNICAL SKILLS

React JavaScript Typescript HTML CSS Jest NodeJs RxJS Java Git
Docker python SQL

INTERESTS

I always been interested int new techniques and trying to keep myself updated.

AI fascinates me. I love learning about how it works, especially Large Language Models. I'm reading about the latest AI developments in free times.

Rust programming is amazing because it combines performance with safety. I love diving into its world, reading up on it, and trying to learn it whenever I have free time.

I'm really curious about how things work under the hood, especially at the low level. I'm like to dive into open source projects to understand their inner workings and how they're built from the ground up.

LANGUAGES

- Persian - Native
- English - Fluent