

Mohammad Abbas

Software Developer

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🐙 Github

Profile

Software Developer with 1+ years of experience building production-ready web apps. Published open-source npm libraries adopted by 1,000+ developers for modular, reusable solutions.

Professional Experience

Frontend Developer

04/2025 – Present | Remote

Vertex Partners

- Worked on **Places4Students**, a platform connecting students with off-campus housing options.
- Developed an **interactive map** interface and a dynamic user dashboard, improving navigation and user engagement.
- Focused on frontend development using **Next.js**, ensuring scalability and maintainability.
- Achieved excellent Lighthouse scores (**90+ on both desktop and mobile**) by optimizing performance, accessibility, and SEO.

Software Developer Volunteer

08/2023 – present | Remote

Big Data Specialist community

- **Led full-stack development** of an in-progress programming course platform using **Next.js, Spring Boot, and MySQL**, partnering with the community owner to design scalable architecture and prioritize cross-platform usability.
- **Migrated ReactJS to Next.js**, improving page load speed by **30%** and enabling SEO-friendly SSR/SSG workflows.
- **Containerized the application with Docker** and automated CI/CD pipelines using **GitHub Actions**, ensuring consistent environments and accelerating deployment cycles.
- **Built a search engine** (Spring Boot, MySQL) with advanced filters/pagination, reducing backend query time by **40%** and streamlining course discovery.
- **Automated data scraping** for 500+ courses/month using **Selenium/Java**, saving **15+ hours/month** of manual effort.

Full Stack Developer

01/2025 – 04/2025 | Beirut

3E Tech

- **Built a TypeScript-driven multi-step form** for a property management system using **React Hook Form + Zod**.
- Built a full-stack LMS with **TypeScript, React, and Node.js**, implementing role-based access control and course enrollment.
- Designed **PostgreSQL** database schemas and leveraged **Prisma ORM** to **optimize query performance by 25%**.

Software Developer

05/2023 – 08/2023 | Hazmieh

Bracket Technologies

- **Contributed to a team** building a scalable flight/hotel booking platform using **Bracket**.
- **Developed a secure user registration system** with role-based access, enabling 500+ travel agents to onboard and manage bookings efficiently.
- **Engineered a search engine** with dynamic filters, reducing average search time for agents by **40%**.

Projects

Mo Programming Language

JavaScript, moo, nearley.js

- Engineered **Mo**, a custom programming language, using **moo** for lexical analysis and **nearley.js** for parsing, implementing a context-free grammar to optimize syntax validation and AST generation.
- Architected a **transpiler** to convert Mo source code into executable JavaScript, enabling seamless integration with existing JS ecosystems and eliminating runtime compatibility errors.

Open Source Contribution

Rapid Express

NodeJs, Express.js, TypeScript

- Engineered a **globally-installed CLI tool** to automate Express.js app scaffolding using TypeScript, enabling rapid generation of production-ready backend APIs with a single command
- Designed a **scalable folder architecture** with built-in decorators, and error-handling middleware, reducing initial setup time for developers by **70%**.
- Implemented **custom decorators** (e.g., **@Route**, **@Middleware**) to simplify API routing and validation, cutting boilerplate code by **40%** and accelerating feature development.
- Published on npm, achieving **1,200+ downloads**.

React Image Component

React.js, TypeScript

- Created **react-img-component**, a lightweight React library for performant image lazy loading, leveraging the Intersection Observer API.
- Implemented a **user-customizable placeholders** to improve perceived performance and reduce layout shifts.

React CLI

Go

- Built a CLI tool in **Go** to scaffold **React** projects with optional flags for **TypeScript**, **React Router**, and **Tailwind CSS**.
- Enabled quick and consistent component generation through custom CLI commands.

Skills

JavaScript	TypeScript	React.js	Next.js	AngularJs	Express.js	NodeJs	Java	
Spring boot	Go	C#	Unity	HTML	CSS	TailwindCss	PostgresSQL	MySQL
MongoDB	Prisma	Git	Github Actions	Docker	Selenium	Jest	Playwright	

Education

Bachelor in Management Information System

Lebanese university

2021 – 2025