Mohammad Abbas

Full Stack Developer

✉ mhmd.y.abbass@gmail.com   📞 71255014   📍 Beirut, Lebanon   🔗 Portfolio   in LinkedIn

○ Github

Summary

Full-Stack Developer with over 1 year of experience building modern web applications. **Skilled in the React and Node.js ecosystem (TypeScript, Next.js)**, with versatile experience in back-end development using Java and Spring Boot.

Experience

Frontend Developer, *Vertex Partners*   04/2025 – Present | Remote
- Served as a key frontend developer for **Places4Students**, a leading online marketplace connecting students with off-campus housing.
- Optimized the platform's performance, **accessibility**, and **SEO** to **achieve Lighthouse scores of 90+** on both desktop and mobile.
- Engineered a dynamic user dashboard and an **interactive map** interface using **Next.js**, significantly improving user navigation and engagement.
- Developed a scalable and maintainable frontend architecture to ensure long-term stability and ease of future development.

Full Stack Developer Intern, *3E Tech*   01/2025 – 04/2025 | Beirut, Hybrid
- Contributed to the development of a full-stack **Property Management Dashboard**, building and integrating key features using TypeScript, React, and an Express.js backend.
- Spearheaded the implementation of a secure, multi-step user form for the dashboard with complex validation using React Hook Form and Zod.
- Engineered a full-stack **Learning Management System (LMS)** from the ground up, featuring a NestJS backend, React frontend, and a PostgreSQL database managed with Prisma.
- Optimized database queries within the LMS to **improve performance by 25%** while implementing features like role-based access control.

Software Developer, *Bracket Technologies*   05/2024 – 08/2024
- **Engineered** a high-performance search engine with dynamic filters for a flight/hotel booking platform.
- **Developed** a secure, role-based user registration system.
- **Collaborated** in a team environment to build and scale the platform using Bracket, ensuring robust and reliable performance.

Skills

Programming Languages: JavaScript, TypeScript, C, C#, Java, Python, Go, SQL, NoSQL

Frameworks & Libraries: React.js, Next.js, NodeJs, Express.js, Nest.js, Springboot, Tailwind, Jest, Vitest, Playwright

Databases & ORMs: Postgres, Mysql, Mongodb, Prisma, Hibernate, JPA,

Tools: Git, Github, Github Actions, Docker, Selenium

Volunteer Work

Big Data Specialist Community, *Full Stack Developer*   08/2024 – Present | Remote
- **Architected and led** the end-to-end development of a full-stack platform that aggregates programming courses and coupons from various online sources.
- **Engineered** the complete application using **Next.js** for the frontend and **Java/Spring Boot** for the backend, creating features like a blog, news feed, and an administrative dashboard.
- **Implemented** an automated web scraping pipeline using **Selenium WebDriver** to gather and update course data, ensuring the platform's content remains current.
- **Designed and managed** the **MySQL** database schema to efficiently store and retrieve course, user, and content information.

Projects

Custom Programming Language
- **Engineered** a custom, dynamicaly-typed programming language from the ground up, implementing parser and grammar using **nearley.js** to generate an Abstract Syntax Tree (AST).
- **Architected** a custom transpiler to convert the language's source code into optimized, executable JavaScript, ensuring full compatibility with the Node.js runtime.

Online React Code Editor
- **Developed** a browser-based React code editor and bundler from scratch, leveraging **esbuild** for high-performance in-browser transpilation and bundling.
- **Authored** a custom **esbuild plugin** to resolve npm package imports by fetching them directly from the unpkg CDN, effectively bypassing CORS errors.
- **Implemented** a browser caching system using **IndexedDB** to store fetched packages, significantly reducing load times on subsequent visits.

Rapid Express 🔗
- Engineered a globally-installed CLI tool to automate Express.js app scaffolding, enabling rapid generation of production-ready APIs with a single command.
- Designed a scalable folder architecture with built-in decorators and error-handling middleware, **reducing initial developer setup time by 70%.**
- Published on npm, achieving **1,200+ downloads** and creating a valuable tool for the developer community.

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

React Cli
- Built a **high-performance** 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, streamlining the development workflow.

Education

Bachelor in Management Information Systems,   2021 – 2025
Lebanese University