

Waël Hamzé.

SOFTWARE ENGINEER

FRONTEND DEVELOPMENT – BACKEND DEVELOPMENT - TESTING

Beirut - Lebanon

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Current Position

Front-End Developer

Peterborough, England (Remote).

[2RERO](#)

Jan 2023 - Present

- Developing the admin, business, and representative websites using **React.js** and **Next.js** to deliver high-quality and user-friendly web solutions.
- Employed component subdivision techniques in the admin website to improve performance and ensure efficient rendering of large amounts of content on multiple pages.
- Implemented **CRUD** (Create, Read, Update, Delete) operations in the admin website, providing seamless management and manipulation of content.
- Implemented **Redux.js** in the business website to effectively manage large state and handle **complex** data flows across multiple pages, improving performance and maintainability.
- Utilized **Material-UI** to create a visually appealing and user-friendly interface.
- Enhanced **SEO** optimization on the representative website, employing best practices and techniques to improve search engine visibility.
- **Containerized** all three websites for efficient deployment to production environments, ensuring scalability and optimal resource management.
- Implemented unit **testing** to ensure code reliability and maintainability, facilitating bug identification and resolution.
- Managed tasks effectively, collaborating with my team to prioritize and track project milestones.
- Integrated Google Maps API into the websites, enhancing user experience with interactive and location-based features.

Skills Used

- Web Development: Next.js, React.js, Redux.js, HTML, CSS, JavaScript
- Deployment and Containerization: Docker
- Testing: Jest
- Task Management: Jira
- Problem Solving: Troubleshooting, Bug Fixing
- Project Collaboration: GitHub, Slack, Zoom
- User Experience (UX) Design

Key Points

Front-End Development

HTML, CSS, Sass, Bootstrap, JavaScript, jQuery, TypeScript, Next.js, React.js, Redux, Web Sockets.

Back-End Development

Node.js, Express.js, PHP, Laravel, SQL, MongoDB, REST API's, Postman.

Tools (Methodologies)

Jira (Task Management), Docker (Deployment and Containerization), Git and GitHub (Version Control).

Mobile-Desktop Development

Android Studio - Java (Basic Knowledge).
Graphical User Interface – JavaFX (Basic Knowledge).

Programming Languages

C/C++, Java, JavaScript, TypeScript, Python, C#, PHP, Prolog.

Software Practices

Data Structures, Algorithms, Object-Oriented Programming (OOP), Design Patterns, Graph Theory.

Languages

English, French and Arabic.

Previous Professional Experience

Full-Stack Web Developer

California, US (Remote).

[Grade Hero](#)

Oct 2020 – May 2021

- Developed the admin panel, implementing features such as user management and data visualization.
- Integrated a chat application, allowing real-time communication between users.
- Integrated **Agora RTC** (Real-Time Communication) for video chat functionality within the application.
- Created **REST API's** to handle client-server communication and database interactions.
- Worked extensively with **MongoDB**, designing schemas and ensuring optimal data structure.
- Developed a **Socket.io** server to handle socket requests from the mobile app and admin panel.
- Utilized Reactstrap and **Bootstrap** to create a visually appealing and user-friendly interface.

Skills Used

- Front-End Development: React.js, Redux.js, HTML, CSS, JavaScript
- Back-End Development: **Node.js**, **Express.js**
- Database: MongoDB
- Web Sockets: Socket.io
- Task Management: Jira
- Problem Solving: Troubleshooting, Bug Fixing
- Project Collaboration: GitHub, Zoom
- User Experience (UX) Design

Personal Projects

Quizzie

Quiz App

- Tech Stack: Laravel (backend with MySQL database) + React (frontend).
- User Authentication: Registration, login.
- Quiz Types: Multiple-choice, true/false, and open-ended questions.
- Results: Detailed feedback, scores, leaderboards.
- Responsive Design: Mobile-friendly interface for smartphones and tablets
- Security: Protection against common vulnerabilities and encryption of user data

Shoes

E-commerce Store

- Tech Stack: Node.js (backend) + React (frontend)
- Product Catalog: Backend database (MongoDB) to store product information
- Add to Cart: Ability to add products to a shopping cart for later purchase
- Cart Management: Updating quantities, removing items, and calculating totals
- Demo Checkout: Simulated checkout process for testing purposes
- Search and Filters: Search functionality and filters for product refinement

TeleClone

Real-time chat/video app

- Tech Stack: Node.js (backend and MongoDB as database) + React (frontend)
- Web Sockets: Ability to chat and video call between users using Socket.io and Agora RTC.
- Add Friends: Ability to add other users as friends and chat with them.
- Reject Requests: Requests can be either declined or accepted.
- Dark Mode: Switch on and off between dark and light mode.

WordleClone

Guess the word.

- Tech Stack: JavaScript (frontend)
- Guess: Enter your guess and keep on playing till you win.

Touch-Touch

Guess the word.

- Tech Stack: JavaScript (frontend)
- Guess: Click as fast as you can and go for the win.

You can check my projects on [My Portfolio](#) with their respective *GitHub* links.

Education

Lebanese University - Faculty Of Sciences

BS. DEGREE IN COMPUTER SCIENCE

Hadat, Beirut

2020-2023

Social Media links

LinkedIn [in/wael-hamze](#)

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