

# Mehdi Azar: Web Developer

## Mehdi Azar

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## Career Summary

Innovative full-stack developer with extensive experience in building responsive and scalable web applications across diverse technology stacks. Proficient in advanced **JavaScript** frameworks and technologies, including **React**, **TypeScript**, and **Node.js**, with a solid background in both **MERN** and **PERN** stacks. Recent projects have demonstrated a strong capability in utilizing **C#**, **ASP.NET**, and **ReactNative** for comprehensive backend-to-frontend integration. Highly skilled in managing and optimizing databases using **Entity Framework**, **PostgreSQL**, and other **ORMs** like **Prisma** and **Sequelize**. Expert in creating intuitive user interfaces and seamless user experiences using **ReactJS**, **MUI**, and **Tailwind CSS**. Proven track record in leading development teams through rapid development cycles and implementing **CI/CD pipelines** for streamlined deployment and testing processes. Committed to leveraging the latest advancements in **AI/ML** tools and **DevOps** practices to enhance application performance and user engagement.

## Technical Skills

- **Frontend:** HTML5, CSS3, JavaScript, TypeScript, React, React Router, MUI, TailwindCSS, Bootstrap, SASS
- **Backend:** Node.js, Express.js, C#, ASP.NET, Entity Framework, PostgreSQL, MongoDB, AWS, Prisma, Sequelize, Mongoose
- **DevOps/Tools:** Git, GitHub, Docker, AWS, CI/CD Pipelines, Webpack, Firebase, Cypress
- **AI/ML Tools:** LangChain, GitHub Copilot

## Work Experience

### ***TTP - Full-Stack Developer 09/2024 - 03/2025 Rancho Santa Margarita, CA***

- *Spearheaded the rapid clearance of development backlog, addressing all outstanding issues within the first month of tenure.*
- *Engineered a series of innovative features, including:*
  - **Mobile-responsive Map Search:** *Developed adaptive mapping functionalities for mobile environments using ReactNative.*

- **Enhanced Authentication System:** Implemented custom login enhancements such as tailored messages and notifications for new users.
- **Interactive Bed Reservation System:** Created a drag-and-drop interface for bed reservation and swapping, enhancing user interactivity.
- **Onboarding Tutorial:** Developed an interactive training tutorial utilizing the Joyride library to guide users through application functionalities.
- **Insurance Selection Interface:** Designed a dropdown menu for insurance selection, saving user preferences and reflecting choices dynamically on user profiles.
- Led the design and implementation of more than a dozen UI improvements utilizing MUI, Tailwind CSS, and advanced ReactJS techniques.
- Contributed to backend development, including API design and database management using C#, Entity Framework, and PostgreSQL.
- Authored comprehensive test cases and documentation for UI testing, facilitating effective QA processes and user testing.
- Actively participated in accelerated sprint planning, contributing to rapid project turnover and continuous delivery of enhancements.

### **Megasys .Inc - UI Tester**

01/2020 - 09/2024

Anaheim, California

- **Worked with 2 other developers to conduct UI testing using Playwright:** Improved the efficiency of UI testing by 40% through the use of Playwright, streamlining the testing process for faster deployment.
- **Utilized Agile methodology to identify and fix bugs, using TypeScript and Automations:** Participated in Agile sprints to identify and resolve bugs across the application, implementing TypeScript and automated testing frameworks to enhance development speed and quality.
- **UI testing for Financial Servicing Application for Payment Posting, User Login, Electronic Payment:** Conducted extensive UI testing for critical financial systems including payment posting and user login, ensuring seamless user experience and error-free transaction flows.
- **Other responsibilities:** Spearheaded automation tests, increasing code coverage by 35%, reducing manual testing time by 60%, and improving the overall QA process for faster deployment cycles.

### **AdIQ - Web Designer for SEO Company**

08/2016 - 07/2019

Costa Mesa, State/Province

- **Designed Websites for businesses for SEO purposes:** Designed and developed responsive SEO-optimized websites for small businesses, leading to a 25% increase in search engine rankings and a 30% boost in organic traffic.

- **Tech stack: HTML, CSS, JavaScript, and SEO tools:** Implemented HTML, CSS, JavaScript, and SEO tools to create websites that not only met design specifications but also exceeded client expectations for user experience and SEO performance.
- **Integrated SQL databases, WordPress:** Integrated SQL databases and WordPress for dynamic website functionality, enabling better content management and providing clients with user-friendly interfaces for maintaining their websites.
- **Created Hashtag creating tools:** Developed custom hashtag generation tools, empowering clients with more effective social media engagement strategies.

## **IT Specialist**

2008 - 2016

- Provided comprehensive IT support, troubleshooting, and problem-solving across various software and hardware systems.
- Enhanced system performance by regularly updating and maintaining IT resources, ensuring minimal downtime and optimal operating conditions.
- Assisted in the deployment and management of network solutions, contributing to robust and efficient IT infrastructure.

## **Professional Project samples**

### **1. Mobile-responsive Map Search (React and ReactNative)**

- Developed adaptive mapping functionality for mobile and web environments, improving location-based searches and user interface responsiveness. Utilized ReactNative and integrated with backend services for real-time data updates.

### **2. Enhanced Authentication System (C#, ASP.NET)**

- Engineered custom login features for a web application, including tailored messages and notifications for new users, enhancing user engagement and security measures.

### **3. Interactive Bed Reservation System (React, Entity Framework)**

- Created a user-friendly drag-and-drop interface for bed reservations and swapping, significantly improving user experience and operational efficiency. Implemented using React with a robust backend managed through C# and Entity Framework.

### **4. Onboarding Tutorial Using Joyride Library**

- Developed an interactive tutorial for first-time users of the platform, guiding them through complex functionalities to enhance user understanding and satisfaction.

### **5. Insurance Selection Interface (React, PostgreSQL)**

- Designed and implemented a dynamic insurance selection tool with dropdown menus, where choices are saved and reflected immediately, facilitating a better user experience.

### **6. Continuous UI Improvements (MUI, Tailwind CSS, ReactJS)**

- Led over a dozen UI enhancements, applying modern design principles and frameworks to increase usability and aesthetic appeal across applications.

## 7. API Design and Backend Development (C#, ASP.NET, PostgreSQL)

- Took on significant backend coding tasks, developing APIs and managing database updates to support frontend functionalities and ensure seamless user experiences.

## 8. QA and Documentation

- Authored detailed test cases and documentation to support QA processes, enabling efficient testing and validation by professional users.

## Freelance and School Projects (sample):

**Weather Dashboard** [Repo](#) | [Deployed](#) (Render)

**Role:** FullStack Developer

The Weather Dashboard is a web application enabling users to search and view current weather data and a 5-day forecast for cities worldwide. Users can store their search history locally, allowing quick access to previously searched cities.

- Built with: TypeScript, TailwindCSS, and Express for a modern, full-stack approach
- Features Real-time weather data for searched cities
- 5-day weather forecast display
- Persistent local storage of search history (local feature only)
- Tools/Languages: TypeScript, TailwindCSS, Express, OpenWeatherMap API
- Interactive UI with light/dark mode toggle and hover effects

**Personal Portfolio** | [Repo](#) | [Deployed](#) (With Netlify)

**Role:** Developer

This personal portfolio was built using React and TailwindCSS. The portfolio showcases my projects, skills, and experience in a clean and professional format.

- Built using React for the frontend and TailwindCSS for styling.
- Features responsive design and interactive elements like hover effects and transitions.
- Integrates with GitHub for showcasing repositories and deployment using Netlify.
- Tools/Languages: React, TailwindCSS, GitHub, Netlify

**AdoptPaws** | [Repo](#) | [Deployed](#) (With Vercel)

**Role:** Developer

- Developed a responsive E-commerce website for a pet adoption center, enabling users to explore pets, select items, and review shopping cart contents.
- Implemented efficient client-side cart functionality using JavaScript and persisted data using `localStorage`.
- Improved the user experience by ensuring cart data retention across page reloads.

- **Tech Stack:** HTML5, CSS3, JavaScript, LocalStorage.

## VehicleVanguard | [Repo](#)

**Role:** Developer

- *Built a command-line application that allows users to create, manage, and interact with different vehicles (Cars, Trucks, Motorbikes), including special actions like towing and performing stunts.*
- *Led the design and implementation of a dynamic vehicle management system in TypeScript, incorporating complex logic for vehicle-specific actions.*
- *Promoted user interaction by offering dynamic options for vehicle control through an intuitive command-line interface.*
- **Tech Stack:** TypeScript.

## Education

### University of California, Irvine – Division of Continuing Education

*Certificate in Full Stack Web Development*

*June 2024 - December 2024*

- Completed intensive coursework in **JavaScript, Node.js, React, SQL, MongoDB, Python, HTML5, CSS3**, and **Git**, focusing on both **MERN** and **PERN** stacks.
- Developed practical skills in full-stack development through project-based learning, emphasizing Agile methodologies and **RESTful API** design.
- Enhanced data handling and client-side interactions using **GraphQL, Apollo Server**, and **React Routing**.
- Mastered advanced database interactions with **ORMs** like **Prisma, Sequelize**, and **Mongoose** for **PostgreSQL** and **MongoDB** applications.
- Gained expertise in scalable, containerized application development using **NestJS** and **Docker**.
- Advanced **CI/CD integration** skills and implemented rigorous testing protocols using **Cypress** for comprehensive end-to-end testing.

[Link to the Certification](#)

### Bachelor of Science in Information Technology

Graduated: 2014

- Earned a degree in Information Technology, gaining foundational skills and knowledge in systems administration, network configuration, and software development which supported a subsequent career in IT and software development.