

KARRAR ALMAYALI

Full Stack Software Engineer

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Summary

Detail-oriented full stack software engineer with a year of experience in building responsive, user-centric web applications using the PERN tech stack (**PostgreSQL, Express, React, Node.js**). My core strengths include:

- **Full stack delivery:** Efficiently designing, developing and delivering full stack solutions with an emphasis on clear, maintainable code, from the initial concept to the finished application.
 - **Client collaboration:** Skilled at using thorough feedback sessions and effective communication to transform non-technical ideas and needs into fully functional features.
 - **Continuous learning:** I am enthusiastic to broaden my knowledge of various languages and frameworks in order to become a more competent and versatile engineer.
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Education

Bachelor of Science in **Computer Science** with Honours (2:1)

University of East London | Graduated in 2023

BTEC Level 3 National Diploma in **Engineering** (D* D M)

The Warren School (Sixth Form) | Completed in 2019

Experience

Independant Full-Stack Software Engineer (Freelance)

Whilst searching for professional roles after graduation, I proactively sought out any opportunities to gain valuable experience. I was presented with a freelance web development project through a family connection, which led to a number of rewarding projects where I elevated my technical and developmental abilities.

Medical Express Clinic (Medical Clinic - Full-Stack Build)

March - July 2024 (Part-time)

I spent nearly five months working on my first professional project, where I spearheaded the complete rebuild of a basic clinic website into a feature-rich web application. My confidence significantly increased, particularly when I integrated the Stripe and Mailchimp APIs, which strengthened my RESTful capabilities. This project provided the opportunity to work on my technical shortcomings, such as version control, where I challenged myself to only use Git Bash rather than rely on GitHub's desktop software.

Project highlights:

- Constructed a multi-page web application using the PERN stack, including a custom-made appointment booking system that stores patient and appointment information to the PostgreSQL database, and pushes bookings to the clinic's shared Google Calendar.
- Implemented user accounts so patients can log in to view upcoming appointments and access service outcomes like blood test results and visa medical documents.
- Delivered a complete mirrored site in Arabic, with complete functionality, ensuring comprehensive accessibility for the clinic's significant Arabic-speaking customer base.
- Integrated Stripe as the payment gateway and Mailchimp for appointment confirmations.

Technologies: JavaScript, React, Node.js, Express, PostgreSQL, Stripe, Mailchimp, HTML, CSS, RESTful APIs, Git

The Zahra Trust (Charity Organisation - Full-Stack Build)

September - December 2024 (Part-time)

Through a referral from the clinic, I was introduced to The Zahra Trust's charity coordinator who enlisted my services for an overhaul of their outdated, far-too simplistic website. The main goal was to establish means for online fundraising through single and recurring donations. This project gave me the opportunity to further sharpen my skills, specifically with RESTful API integrations.

Project highlights:

- Designed and built a multi-page donation site for a charity whose old site lacked a payment gateway for donations, relying on collecting donations by providing the charity's bank information.
- Successfully integrated Stripe's payment gateway API to facilitate single and recurring donations and Mailchimp for email updates of new appeals and charity missions.

Technologies: JavaScript, React, Node.js, Express, PostgreSQL, Stripe, Mailchimp, HTML, CSS, RESTful APIs, Git

The Zahra Trust Shop (Charity Organisation - Shopify Store)

December 2024 (Volunteer)

Driven both to support a cause I care about and to gain hands-on experience with the Shopify platform, I volunteered to create a storefront for The Zahra Trust when the charity's coordinator mentioned their line of apparel and merchandise, where profits are directed to the charity's current appeal. Although I suggested adding this functionality to the current site, the coordinator felt it was more appropriate to have a standalone site, hence the use of Shopify. In under a week, I cultivated some confidence in using Shopify platform and familiarity with the Liquid templating language.

Project highlights:

- Took an opportunity to gain first hand experience in using Shopify, for a meaningful cause.
- Set up a complete Shopify storefront in one week, creating product, collection and checkout templates to showcase the charity's apparel and merchandise.
- Guided the charity team through various functions like monitoring orders and controlling product stocks, to enable independence.

Technologies: Shopify, Liquid, HTML, CSS, JavaScript

Blood Test London (Blood Testing Clinic - Shopify Store)

January - April 2025 (Part-time)

Building upon our earlier project's success, Medical Express Clinic's team reached out to develop a specialised, standalone website for blood test appointments. They requested a Shopify storefront and although the storefront came together quickly, I struggled to find a suitable appointment booking app on Shopify's app store that would meet the client's needs. Instead, I implemented my own tailored JavaScript-based booking system with a broad set of features, including custom time-slot control, synchronised live availability, and a Google maps display.

Project highlights:

- Designed and built a tailored appointment booking system using Liquid and JavaScript, utilising APIs and a separate application to achieve a comprehensive booking system with real-time availability and a custom UI.
- Implemented automatic delivery of test-result documents via email and into the patient's account, to facilitate a secure and trustworthy service.
- Established an intuitive and clear user flow that resulted in a booking process that halved the time it takes for a user to find, book and pay for their tests.

Technologies: Shopify, Liquid, HTML, CSS, JavaScript, RESTful APIs

Skills & Certifications

- **Languages:** Java, JavaScript, TypeScript, SQL, HTML, CSS, Liquid
 - **Frameworks/Libraries:** React, Node.js, Express, Next.js, React Native, RESTful APIs
 - **Databases:** PostgreSQL, MongoDB
 - **DevOps/Testing:** CI/CD, Agile/Scrum Methodology, Client Collaboration, Jest, React Testing
 - **Certifications:** AWS Cloud Practitioner, IBM Full Stack Developer
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