RAJEA BILAL

FULL-STACK SOFTWARE DEVELOPER | REACT · TYPESCRIPT · NEXT.JS · NODE.JS

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GitHub | LinkedIn | Portfolio

Full-stack developer delivering client applications using **React, TypeScript, Node.js and PostgreSQL**. Experienced in **AI-assisted development with Claude Code**. Currently building Fawna, which turns children's worksheet mistakes into targeted practice, while developing practical **AWS and DevOps** skills. AI hackathon winner with CliniBridge. Previously ran an e-commerce business with **2,000+ sales**, bringing customer understanding and commercial experience.

PROFESSIONAL EXPERIENCE

Full Stack Developer | Refueler Plus

Jul 2026 - Aug 2026 | Private client project

- Built a fuel dispatch system to replace a whiteboard process, using **React**, **TanStack**, **Node.js**, **Express**, **TypeScript**, **Drizzle** and **PostgreSQL**: a priority-ranked site list, a run builder and a Field View for refuellers' handheld PDAs.
- Built PDF processing with **unpdf** that extracts fuel readings from JobWatch completion documents, matches them to sites and checks them using the same rules as manual entry. Suspect readings are held for dispatcher review before affecting site priorities.
- Added fixed-day refuelling schedules and checks that show dispatchers when a required visit was never planned, even when no job was created.
- Added **Supabase Auth** sign-in, role-based access to backend APIs and private PDF storage in **Supabase Storage**, with time-limited download links.

Full Stack Developer Contract | Caf-Ops via Code & Creed

Remote | Sep 2025 - Feb 2026 | caf-ops.com

- Built dashboards for café owners and managers to view sales, staffing and inventory information together, using **React, React Router v7, TypeScript and Tailwind CSS**, with **Convex** backend functions and **Clerk** authentication.
- Mapped **Square** menu sales to ingredient quantities and built a waste dashboard comparing expected usage with inventory changes to estimate waste costs.
- Used **Convex** subscriptions to update dashboard figures when saved summaries changed. Fixed **Square OAuth** method calls and token-response handling, then tested the connection in sandbox.

Full Stack Developer Contract | BuyMeADrink

Remote | Nov 2025 - Jan 2026 | buymeadrink.app

- As sole developer, built a creator-support platform where fans could buy gifts and contribute towards creators' fundraising goals, using **React Router v7, TypeScript, Convex and Clerk**.
- Integrated **Stripe Checkout** so supporters could buy gifts, and **Stripe Connect** so creators could connect their payment account and complete payout onboarding.
- Added fundraising goals that supporters could contribute towards, recording contributions in **Convex** and updating the amount raised from **Stripe** checkout events.
- Connected **Stripe webhooks** to purchase records and **Resend** emails, sending supporters a receipt and notifying creators of new gifts.

Freelance Full Stack Developer | Acorn AI

Remote | Jul 2025 - Sep 2025 | Notary Public Birmingham

- Built a website for a Birmingham notary service where customers could explore services, ask questions and submit enquiries, using **React, TypeScript, TanStack Router and Tailwind CSS**.
- Added a streaming **OpenAI** chatbot with the **Vercel AI SDK**, using the client's business information to answer service questions and direct visitors towards enquiries and bookings.
- Built a validated in-chat enquiry form connected to a backend API and **Supabase**, saving contact details and conversation context so staff could follow up on customer requests.

PROFESSIONAL EXPERIENCE CONTINUED

Full Stack Developer | EduKata

May 2025 - Jul 2025 | edukata.io

- As sole engineer, built a **React, Node.js, Express and PostgreSQL** MVP in three months that turns school assessment spreadsheets into dashboards, helping staff review student performance.
- Implemented the assessment logic provided by the founder, a Deputy Head, and used **Prisma** to connect student, subject and assessment records for the dashboards.
- Built CSV imports that checked required fields and duplicate records, matched subject-name variations, and processed valid rows while reporting problems with the uploaded data.
- Set up **Docker** and **GitHub Actions** to build and publish backend images to **DigitalOcean Container Registry**, making packaging repeatable and supporting handover.

CURRENT PROJECTS AND TRAINING

Fawna | Personal product

In development | Live site | GitHub

- Building an app that uses **AI to mark uploaded maths worksheets**, identifies learning gaps and matches them to **116 UK primary maths curriculum skills**, helping parents choose focused practice.
- Using **AI-assisted development** with **Claude Code**, written feature briefs and **Git worktrees**, then reviewing, debugging and merging changes.

AWS and DevOps | CoderCo

Training in progress | coderco.io | DevOps learning repo

- Built a **serverless student API** with **AWS Lambda, API Gateway and DynamoDB**, using **IAM** permissions and testing requests in **Postman**.
- Configured a **custom AWS VPC** with public/private subnets, route tables, security groups and a NAT gateway.
- Used **Terraform** to launch an **EC2** instance and automate **WordPress** installation with a startup script.

SELECTED PROJECTS

CliniBridge | Clinical trial discovery

NaironAI Hackathon winner | Live site | GitHub

- Built a rare-disease clinical trial discovery MVP in 24 hours using **React, TanStack and Convex**. Added “Understand This Trial” to explain eligibility in plain English, with prompts to avoid medical assertions.

Inkpot | AI chat assistant

Personal learning project | GitHub

- Built an AI chat app with **React, Redux, Node.js, Express and MongoDB**, with **JWT** sign-in and saved conversations. Connected **LangChain** to **Tavily** so the assistant can search the web when answering questions.

EDUCATION AND ADDITIONAL EXPERIENCE

School of Code - Full-Stack Software Development | Selected from 3,000+ applicants

Bachelor of Arts - Arabic Studies

Founder | MimarSinanStudio | 2019 - 2026

Built an e-commerce store to 2,000+ sales and 300+ five-star reviews.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, HTML, CSS, Tailwind CSS; TanStack Start / Router / Query, React Router v7, Redux

Backend and data: Node.js, Express, REST APIs, PostgreSQL, Drizzle, Prisma, MongoDB, Convex, Supabase; Stripe, Square

AI and development: OpenAI API, LangChain, RAG, Vercel AI SDK; Claude Code, Git worktrees, GitHub pull requests

Deployment: Docker, Docker Compose, GitHub Actions, Linux, Nginx, Vercel, Railway; AWS training in progress

Auth and accessibility: Clerk, JWT, BetterAuth; semantic HTML, keyboard navigation, focus states, ARIA