Hamza Mohammed

Backend Software Engineer

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WORK EXPERIENCE

Harambee Developers

Freelance Full-stack Developer   02/2023 – Present

- Increased user engagement by developing a tutoring web platform with integrated chat features, improving communication between students and tutors.
- Automated data analysis for a horse-racing platform using Python, enhancing client decision-making and reducing manual reporting time by 80%.
- Optimized location services by building a high-speed Geocoding API with geocoding and reverse geocoding capabilities, supporting 1M+ location queries per month.
- Facilitated 1000+ matches by developing a modern marriage matchmaking app with React & Node.js, featuring real-time messaging and an intuitive user experience.
- Integrated cloud deployment solutions (Docker, Nginx, VPS) to ensure scalability, security, and high availability.

Immopac AG

IT Consultant   01/2024 –03/2024

- Enhanced project management efficiency by 15% through the development and implementation of software solutions.
- Resolved 95% of client issues by contributing to future software releases and providing consulting services.
- Reduced onboarding time by 20% by supporting client onboarding and providing comprehensive software training.

LaSalle Investment Management London

Senior Technology Analyst   08/2022 –03/2023

- Increased data acquisition efficiency by 30% by developing a web scraping tool using Python and regex.
- Ensured alignment with stakeholder needs by translating business requirements into data and reporting specifications.
- Facilitated interaction between testers and stakeholders, resolving queries and supporting testing efforts.
- Utilized regex to scrape textual data from multiple sources, streamlining the preparation of property presentation slide decks.

PROJECTS

Talibah Match – Marriage App (Lead Developer)

- Led the development of a matchmaking platform using React (frontend) and Node.js (backend).
- Designed and implemented RESTful APIs with secure authentication and efficient data handling.
- Managed deployment with Docker on a self-hosted VPS, ensuring scalability.
- Configured Nginx for reverse proxying, enhancing performance and security.

SimpleGeoApi – Geocoding Application (Lead Developer)

- Architected and built a high-performance geolocation API using Node.js.
- Optimized request handling for fast and accurate geocoding services.
- Integrated Stripe for secure payment processing and subscription management.
- Led deployment on a self-managed VPS using Docker and Nginx for security and load balancing.

[Harambee Tutors](#) – **Tutor Search Platform (Lead Developer & Architect)**
- Spearheaded development of a tutor search platform with React (frontend) and Node.js (backend).
- Designed and implemented secure user authentication and profile management.
- Ensured a responsive, mobile-friendly interface for accessibility.
- Oversaw deployment on a self-managed VPS with Nginx for load balancing and security.

EDUCATION

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Data Engineer Certification   05/2022 – 03/2023
- Completed industrial-level projects focusing on Python/FastAPI, PostgreSQL, and PySpark.
- Designed and developed data pipelines, including containerization using Docker.
- Implemented Lambda architecture for efficient and real-time data analysis.

Queen Mary University of London

Bachelor of Science in Geography & Economics   09/2014 – 07/2017

SKILLS & OTHER

Languages: Python, JavaScript
Web Development: React, Node.js, Express.js
Databases: MongoDB, PostgreSQL
Cloud & DevOps: Docker, Linux, Nginx, AWS, CI/CD
Big Data & Analytics: Apache Spark, Tableau, Pandas
Software Development Practices: Agile, Unit Testing, REST API Design
Certifications: PCEP & PCAP – Certified Python Programmer (2023)