

# Omer Ahmed

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## PROFESSIONAL SUMMARY

Backend Developer with a focus on scalable, secure, and data-driven web applications. Experience building systems with JavaScript, TypeScript, Node.js, Firebase, and PostgreSQL. Strong problem-solver, passionate about real-time applications, geospatial systems, and cloud computing. Open to working on impactful solutions, especially in crisis management, transport, and non-profit tech.

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## EXPERIENCE

### Freelance Backend Software Developer

*Dec 2023 – Present | Remote*

- Developed full-stack web applications for clients using Next.js, Node.js, Firebase, and Supabase.
- Built robust REST APIs and backend systems ensuring performance and security.
- Integrated third-party APIs and services, including real-time tracking with Mapbox GL JS.
- Managed relational and NoSQL databases (PostgreSQL, MongoDB).
- Delivered scalable, responsive applications and handled deployments on AWS.

### AI Trainer

*Nov 2024 – Present | LabelBox, Remote*

- Used AI tools to teach and improve machine learning models.
  - Worked with teams to make sure AI training data was high-quality.
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## EDUCATION

### Bachelor's Degree in Electrical and Electronic Engineering

*2014 – 2019 | Gezira College Of Technology, Khartoum, Sudan*

- Specialization in Telecommunication Engineering (Second Class, Division One).
  - Networking Diploma certification achieved during undergraduate studies.
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## CERTIFICATIONS AND ACHIEVEMENTS

- **Networking Diploma:** Learned networking basics and protocols.
- Completed freelance projects, making fast and reliable backend systems.
- Interested in learning more about Artificial Intelligence and Cloud Computing.

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## PROJECTS

### Vehicle Recovery & Tracking System

*Mar/2025 – Apr/2025*

**Frontend:** Next.js, TypeScript, Tailwind CSS.

**Backend:** Firebase Admin, Supabase.

**Database:** PostgreSQL.

**Storage:** Supabase Storage.

**Mapping:** Mapbox GL JS.

- Developed a real-time web platform for tracking stolen vehicles with geospatial visualization.
- Implemented secure, role-based access control with separate dashboards for users and admins.
- Integrated intelligent vehicle-matching logic and automated "find request" features.
- Built bilingual UI (Arabic/English) with RTL/LTR support and mobile responsiveness.
- Added image upload system for vehicle documentation with secure cloud storage.
- Delivered advanced filtering, clustering, and dynamic search functionality on Mapbox GL.
- Improved efficiency of recovery efforts through interactive geolocation and admin tools.

### Donation Platform (Full-Stack Web Application)

*Dec/2024 – Feb/2025*

- Developed a full-stack web application for disaster relief and crisis management, connecting donors with organizations and crisis projects.
- Implemented an interactive map interface using Mapbox GL JS to visualize crises and manage donations.
- Integrated Firebase for secure authentication and Supabase for database management.
- Built core features including crisis management, organization registration, project tracking, and secure donation processing.
- Designed a responsive UI using Next.js, React, TypeScript, and Tailwind CSS.
- Enabled real-time updates and geographic data visualization for crisis points and donation tracking.

### Virtual Study Group Platform

*Jul/ 2024 – Aug/ 2024*

- Developed a backend system with Node.js and MongoDB to manage study sessions.
  - Integrated WebSocket for real-time group communication and collaborative tools.
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## **SKILLS**

### **Languages & Frameworks:**

- **JavaScript (strong), TypeScript, Python (basic), Java (basic)**
- **Node.js, Express.js, NestJS, Next.js, React**
- **Tailwind CSS, HTML5/CSS3**

### **Backend & Database:**

- **Firebase, Supabase, PostgreSQL, MongoDB**
- **REST APIs, WebSocket, Firebase Admin SDK**

### **Tools & Platforms:**

- **Git, GitHub, VS Code, Docker (basic), AWS (SST)**
- **Mapbox GL JS, PostGIS (familiar)**

### **Soft Skills:**

- **Problem-Solving & Debugging**
  - **Clear Communication & Team Collaboration**
  - **Fast Learner, Attention to Detail**
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## **AREAS OF INTEREST**

- **Full-Stack Development**
  - **Backend Development**
  - **Cloud and Distributed Systems**
  - **Geographic Data Visualization**
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## **LANGUAGES**

- **English: Proficient**
- **Arabic: Native**