

Hamas Ahmed

Software Engineer

Cairo, Egypt | +20 1146800935 | hamasahmed0@gmail.com | hamasahmed.com | linkedin.com/in/hamasahmed | GitHub

SUMMARY

Software engineer with 4+ years building React, Next.js, and React Native products in TypeScript. Cut a core page load from ~14 seconds to under one second and reduced mobile crash rates by about 40% while owning end-to-end iOS releases. Integrates REST and GraphQL with Node.js services, and ships LLM features with OpenAI embeddings, Qdrant vector search, and Google Gemini.

EXPERIENCE

Software Engineer — Liplip AI · Cairo, Egypt Oct. 2025 – Present

- Integrated LLM-based lexicon enrichment using structured prompts and schema-aligned JSON, plus an image-generation pipeline, so entries (definitions, examples, IPA, variants, relations) scale without manual authoring.
- Shipped multimodal pronunciation assessment with Google Gemini (learner audio vs. target text and IPA), returning scores, confidence, and actionable feedback.
- Shipped React Native (Expo) with TanStack React Query for infinite scroll, mutations, and cache updates, alongside a shared typed API package.
- Built REST APIs and MongoDB/Mongoose persistence with pagination, filters, and indexes for responsive list/detail experiences.

Frontend Engineering Instructor — Information Technology Institute (ITI) · Mansoura, Egypt Jul. 2025 – Present (part-time)

- Delivered hands-on frontend training in HTML5, CSS3, JavaScript (ES6+), and React.js (OOP, responsive design, production-ready patterns); mentored 100+ trainees across MEARN and .NET tracks in 9-month, 4-month, and summer programs.
- Guided graduation projects on component architecture, clean code, and Agile delivery using Jira and Trello; conducted code reviews to raise frontend quality and problem-solving skills.

Software Engineer — Nursery Story · Glasgow, UK (Remote) Jun. 2024 – Feb. 2026

- Reduced homepage load time from ~14 seconds to under one second by refactoring GraphQL data fetching, improving retention.
- Led a major frontend refresh of admin dashboard, booking calendar, and invoicing using React and React Native Web, improving usability and customer feedback.
- Cut mobile crash rates by about 40% across iOS and Android, and owned end-to-end iOS releases and production rollouts for new app versions.
- Integrated Stripe for payments and built an accident report acknowledgment flow with React Native and Node.js, improving reliability and nursery-parent engagement.

Software Engineer — Aleyada · Cairo, Egypt (Remote) May 2023 – May 2024 (part-time)

- Improved clinic onboarding accuracy with React Hook Form and Zod, reducing manual data-entry errors.
- Developed REST APIs with Node.js and Express for billing, invoices, and medical records, and analytics dashboards with Recharts for real-time visibility into clinic operations.
- Raised delivery quality with Jest, Supertest, and GitHub Actions CI on AWS Amplify.

Software Engineer — Iktbas · Cairo, Egypt (Remote) Aug. 2022 – Apr. 2023

- Built a quote recommendation engine with OpenAI embeddings and Qdrant vector search, delivering scalable semantic similarity search across large content catalogs.
- Redesigned the admin dashboard with React and Tailwind CSS, and integrated Sentry for production monitoring and faster incident response.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), HTML5, CSS3
Frontend	React.js, Next.js, React Native (Expo), Tailwind CSS, shadcn UI, Recharts
State & forms	Redux Toolkit, TanStack React Query, React Hook Form, Zod
Backend	Node.js, Express.js, NestJS, Prisma
Data & APIs	PostgreSQL, MongoDB/Mongoose, MySQL, Knex, REST APIs, GraphQL, Stripe
AI, testing & CI	OpenAI Embeddings, Google Gemini, Qdrant, Jest, Supertest, Sentry, Git, GitHub Actions, AWS Amplify

EDUCATION

Full Stack Web Development Program (MEARN) — ITI · Top 3 of cohort Nov. 2023 – Mar. 2024

B.Sc. Mechatronics Engineering — Tanta University · GPA 3.68/4.00, 5th of class 2018 – 2023

LANGUAGES

Arabic: Native English: Professional German: Beginner