

Efe Akay

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SUMMARY

Full-Stack Developer and Computer Science graduate specializing in developing secure, scalable web applications with Next.js, React, and TypeScript. Built and deployed efficient full-stack applications featuring role-based access control (RBAC), authentication systems, and real-time data processing using Node.js, Express, and MongoDB. Experienced with server-side rendering, Server Actions, and secure architecture design using JWT and bcrypt. Leverages Claude and other AI tools for debugging, code review, and UI design throughout the development lifecycle.

PROJECTS

Work Tracker

Live: work-tracker-frontend-green.vercel.app

- Built a full-stack team management app using **Next.js 16**, **React 19**, and **TypeScript** with **Server-Side Rendering** for a performant, type-safe, and scalable web application.
- Developed a **RESTful API** with **Node.js** and **Express.js**, implementing role-based access control (**RBAC**) across admin, supervisor, and worker roles with protected routes.
- Designed **MongoDB** schemas using **Mongoose** and leveraged the aggregation pipeline to compute real-time employee task statistics.
- Secured the app with **JWT** authentication, **bcrypt** password hashing, and cookie-based session management.
- Collaborated in a team using **Git**, creating a new branch for each feature and regularly merging into main throughout the development lifecycle.

Exercise Tracker

Live: exercise-tracker-blue.vercel.app

- Built goal tracking logic that compares actual sets and reps against user-defined targets, indicating whether each exercise goal was met per workout session.
- Implemented **Next.js Server Actions** to handle all data mutations directly from server functions, eliminating the need for a separate API layer.
- Stored and managed all app data using **Upstash Redis** as a serverless cloud key-value database.

Portfolio

Live: efeakay.dev

- Built a portfolio with smooth scroll animations and section-based navigation using **Tailwind CSS v4** and **Framer Motion**.
- Designed the UI using **Google Stitch** and **Gemini** for visual prototyping and AI-generated images before development.
- Integrated **Resend API** with a custom verified domain for transactional email via a contact form, deployed on **Vercel**.

SKILLS & INTERESTS

Technologies: JavaScript/TypeScript, Next.js, React, Node.js, MongoDB, SQL, Git, Python, C++

Languages: English (Advanced), Turkish (Native)

EDUCATION

College of Southern Nevada
Computer Science AA • GPA 3.70

Las Vegas, NV
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