

Ahmed Mahmoud

Software Engineer

Motivated Backend Engineer, passionate about building reliable and efficient server-side applications. Experienced in designing RESTful APIs, managing databases, and applying modern development practices to deliver scalable backend solutions. Eager to contribute to impactful projects and grow in Agile, team-driven environments.

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WORK EXPERIENCE

Tourista Full-Stack Travel Booking Application remote

07/2025 - 10/2025

remote

Achievements/Tasks

- Developed a full-stack travel booking web app using Node.js, Express, and MongoDB, implementing an MVC architecture that improved maintainability and scalability of the codebase.
- Optimized database queries with MongoDB indexing and aggregation pipelines, resulting in significantly faster query performance and smoother data retrieval for tours and user data.
- Implemented security best practices including JWT-based authentication, rate limiting, and data sanitization, which strengthened system protection against brute-force and injection attacks.
- Redesigned the front-end with Pug templates, CSS, and JavaScript, creating a modern, user-friendly interface and establishing the new "Tourista" brand identity.

Backend Engineer ProdFlow – REST API System

02/2025 - 06/2025

remote

Achievements/Tasks

- Built a scalable REST API with Node.js, Express, Prisma, and PostgreSQL, enabling efficient backend operations.
- Implemented secure JWT authentication and middleware-based authorization using bcrypt and jsonwebtoken.
- Optimized database schemas and queries in PostgreSQL, improving performance and data handling.

Backend Engineer Note-Taking CLI Application

04/2025 - 05/2025

Achievements/Tasks

- Developed a CLI tool with Node.js and the fs module, allowing local note management via terminal.
- Handled argument parsing and CRUD logic, delivering a smooth command-line experience.
- Stored notes in a structured JSON file, enabling persistent, offline usage.

EDUCATION

Information Systems

Faculty of Computer and Information Sciences,
Ain Shams University

09/2017 - 06/2022

Cairo, Egypt

TECHNICAL SKILLS

JavaScript, TypeScript

Express (Node.js), Nest.js

OOP, Functional Programming

SQL, NoSQL, MongoDB, Postgres, Prisma

SOLID principles

Unit testing

Docker, Version Control with Git

Deployment: Render, Vercel

Auth, OAuth2

PROJECTS

Authenticated Todo App – Node.js, Express, Prisma, PostgreSQL, Docker (07/2025 - 08/2025)

- Developed a secure CRUD Todo app with JWT authentication, Prisma ORM, and PostgreSQL, fully containerized using Docker.
- Implemented protected routes, user login/registration, and database migrations with Prisma and Docker Compose.

Prodflow API – Node.js, Express.js, Postgres, Prisma, REST API (06/2025 - 06/2025)

- Built a RESTful API to manage production workflows, including creating, updating, and tracking tasks and statuses.
- Designed modular routes, integrated MongoDB with Mongoose, and implemented role-based access using JWT.

Graduation Project Fake News Detection Using Machine Learning (08/2021 - 07/2022)

- Prepared and cleaned the dataset by handling missing values, removing noise, and applying NLP techniques like tokenization, stemming, and stopword removal.
- Implemented and trained an SVM (Support Vector Machine) model to classify news articles, achieving 93% accuracy and 91% precision on test data.

LANGUAGES

Arabic

Native or Bilingual Proficiency

English

Full Professional Proficiency

INTERESTS

Reading

Podcasts

Video Games