

Ahmed Sheref

Backend Developer

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Profile

Backend-focused Software Developer specializing in Node.js, Express.js, SQL, and MongoDB, with complementary full-stack experience in Angular and TypeScript. Seeking a Software Engineering internship to apply my background in database architecture, competitive programming, and API design. Currently studying Information Systems at Cairo University.

Education

Cairo University 2023 – 2027
B.Sc. in Computer Science and Artificial Intelligence Giza, Egypt
Major: Information Systems (IS) GPA: 3.12

Experience & Training

National Telecommunication Institute (NTI) Jun. 2026 – Aug. 2026
MEAN Stack Development Trainee

- Developing full-stack web applications using MongoDB, Express.js, Angular, and Node.js.
- Building Angular components, services, routing, and forms using TypeScript and dependency injection.
- Applying database design and performance concepts, including relational versus NoSQL databases, schema modeling, indexing, and query optimization.

Star Union

Backend Developer — Student Activity

Dec. 2025 – Mar. 2026

- Designed and implemented RESTful APIs to support application features and backend workflows.
- Worked with SQL Server to manage application data and improve query performance.
- Collaborated with team members to debug issues, deliver backend features, and improve system stability.

Extracurricular Activities

Egyptian Collegiate Programming Contest (ECPC) Jul. 2024 & Jul. 2025
Two-Time Participant

Participated in two ECPC editions, strengthening problem-solving, data structures, algorithms, teamwork, and competitive programming skills under contest conditions.

Certificates

Node.js, Express & MongoDB Bootcamp – Udemy	Sep. 2026
MEAN Stack Web Development – National Telecommunication Institute (NTI)	Aug. 2026
Shell Intilaaqah Bootcamp – Flat6Labs & Shell	Apr. 2026
Node.js from Scratch – Cloud Native Base Camp	Sep. 2025
Master Git & GitHub – Udemy	May 2025
Data Analysis Skills – DataCamp	Mar. 2025

Projects

Natours — Node.js, Express.js, MongoDB, Stripe Sep. 2026

- Built a RESTful backend using Node.js, Express.js, MongoDB, and Mongoose for tours, users, reviews, authentication, and booking workflows.
- Implemented JWT authentication, role-based authorization, password reset, data validation, protected routes, and centralized error handling.
- Developed advanced API functionality including filtering, sorting, pagination, aggregation pipelines, database indexing, and geospatial queries.
- Implemented image uploads and processing using Multer and Sharp, along with transactional email workflows using Nodemailer and Pug templates.
- Integrated Stripe Checkout and webhook verification for payment-based bookings, with the backend deployed on Render and the frontend deployed on Vercel.

TickTick Extension — AI Productivity System

Jan. 2026 – Mar. 2026

- Engineered an AI-powered productivity system combining a Chrome Extension with a Node.js and Express.js backend to capture, process, and organize web content.
- Integrated the Groq API with LLaMA models to generate structured summaries, semantic tags, and quizzes from saved articles.
- Designed RESTful APIs using MongoDB and Mongoose to manage users, saved content, settings, and automated workflows.
- Implemented OAuth2 integration with the TickTick API, enabling users to create and organize TickTick tasks directly from saved content.
- Built Telegram Bot and scheduled workflows for interactive quizzes, weekly digests, email notifications, and automated learning reminders.
- Deployed the backend and configured production environment variables and multiple external API integrations.

- Built a modular backend system to manage customers, vehicles, insurance policies, accident reports, claims, and payment workflows.
- Designed RESTful APIs with JWT authentication, role-based authorization, Google OAuth, validation, file uploads, and centralized error handling.
- Integrated SQL Server to manage relational application data and implemented Swagger/OpenAPI documentation for backend endpoints.

- Developed a console-based restaurant ordering system using Java and object-oriented programming principles.
- Applied design patterns to create extensible modules for menus, discounts, payment methods, and order workflows.

Skills

Backend: Node.js, Express.js, RESTful APIs, JWT, OAuth2, Stripe, Webhooks	Software Engineering: OOP, Data Structures & Algorithms, SOLID, Design Patterns, SDLC, Agile
Frontend: HTML, CSS, JavaScript, TypeScript, Angular	Tools: Git, GitHub, Postman, Swagger/OpenAPI
Databases: MySQL, PostgreSQL, SQL Server, MongoDB, Mongoose, Redis	Programming: JavaScript, TypeScript, C++, C#, Java, Python, C

Languages

Arabic: Native	English: B2
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