# ALI MAGDY

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## PROFESSIONAL SUMMARY:

**I'm a Computer Science student at Ain Shams University, passionate about software and web development specializing in backend development with expertise in Node.js, Express.js.** My projects reflect my ability to use computer science to enhance companies' workflows and introduce new ideas after studying its unique needs, as demonstrated by my development of HFD project.

## EDUCATION:

**Ain Shams University, Cairo | B.S. COMPUTER SCIENCE | GPA:** 3.2 / 4.0 | Expected JUN **2026**

Concentrations: Software Development, Web Development, Database Systems, Algorithms and Data Structures

## SKILLS:

**Languages/ Framework/ tools/ Other:**
- JavaScript, Java, C++, HTML, CSS, SQL, Node.js, Express.js, MySQL, PostgreSQL, Supabase, Prisma ORM.
- REST APIs, Authentication, WebSocket, Middleware, HTTP, Database Design, Jest (Unit Testing), CLI, Git.

## EXPERIENCE:

**Freelance AI Trainer – Outlier AI**                                     **DEC 2024 – Present**
- Contributed to the development and improvement of generative AI models by providing coding expertise, crafting complex computer science problems, and training AI systems to understand and generate high-quality code in **Java, JavaScript, and C++** and frameworks like **Express.js**.
- Evaluated, ranked, and provided feedback on AI-generated code, ensuring adherence to strict coding standards, style, and grammar, while collaborating on tasks that required **strong problem-solving skills**.

**Freelance Web Developer – Zahret Misr Company**                         **OCT 2024 – OCT 2024**
- Increased product visibility by developing a website to showcase the company's agricultural products, allowing customers to explore Fresh Fruits and Vegetables online, and make orders using an Integrated functional contact form with Web3Forms API.
- Enhanced website performance by 40% by implementing dynamic product cards with lazy loading, interactive modals for product details, and smooth scrolling navigation, leading to a faster and more engaging user experience.

    Link: github.com/alimagdye/zahret-misr

## PERSONAL PROJECTS:

**Real-Time Chat Application**                                           **JAN 2024**
- Developed a **real-time** chat application using **Node.js**, **Express.js**, **Socket.io**, **PostgreSQL**, and **Supabase client**, enabling **two-way communication** and real-time messaging and database persistence to efficiently manage message storage.
- Implemented **JWT-based authentication** for secure login/signup and protected **WebSocket** connections using **middleware**.

Link: github.com/alimagdye/Real-Time-Chat-Application

**Cinema System**                                                       **NOV 2024**
- Developed a dynamic hall and seat reservation system in **Java**, enabling efficient cinema seat management, real-time seat availability updates, and streamlined booking functionalities.
- Implemented a robust movie scheduling and reporting system, allowing the addition/removal of movies, handling multiple showtimes, and generating detailed reports on seat occupancy and movie schedules.

Link: github.com/alimagdye/Cinema-System

**Bank website**                                                                    **OCT 2024**
- Developed a personal banking project using **HTML**, **CSS**, and **JavaScript**, simulating account login and transaction management with client-side storage, ensuring data persistence within the browser.
- Designed a **responsive**, user-friendly interface that displays bank information on the homepage and adapts to multiple devices, enhancing accessibility and usability.

Link: github.com/alimagdye/trust-bank

**Product Management API**                                                           **SEP 2024**
- Developed a full-featured **CRUD REST API** using **Node.js**, **TypeScript**, and **Express.js**, **PostgreSQL database**, **Prisma ORM**, managing users, products, and its updates.
- Implemented secure **JWT authentication** and **middleware protection** to ensure secure access and enforcing data validation with **express-validator**.

Link: github.com/alimagdye/product-management-api

**Notes CLI App**                                                                    **AUG 2024**
- Developed a full-featured Notes Management CLI App using **Node.js**, integrating **Yargs** for CLI command parsing, enabling users to create, view, find, and delete notes with simple commands.
- Implemented **file handling**, **asynchronous programming**, and template interpolation for efficient data management, allowing users to view notes via a local **web server** that opens automatically.

Link: github.com/alimagdye/note-app

**HFD Database for a virtual Hotel**                                                  **DEC 2023**
- Designed and implemented a comprehensive **MySQL database** for a hypothetical hotel catering to individuals with disabilities, managing guest information, employee details, medical records, entertainment trips, and departmental activities.
- Projected significant operational improvements, estimating a 30% increase in guest satisfaction through tailored accommodations and a 20% boost in efficiency by streamlining guest and departmental data management, based on logical assumptions and industry benchmarks.

Link: github.com/alimagdye/HFD-database

**CERTIFICATES:**
- Complete Intro to Real-Time, Frontend Masters - **FEB 2025**
- API Design in Node.js, v4, Frontend Masters - **FEB 2025**
- Digging Into Node.js, Frontend Masters - **JAN 2025**
- The Hard Parts of Servers, Frontend Masters - **JAN 2025**
- **Introduction to Node.js v3**, Frontend Masters - **JAN 2025**
- React Basics, Meta - **SEP 2024**
- Front End Web Development Using React, ITI - **AUG 2024**
- AI Career Essentials, ALX – **JUL 2024**
- HTML and CSS in depth, Meta – **JUL 2024**
- Version Control, Meta – **APR 2024**
- Programming with JavaScript, Meta – **FEB 2024**
- Introduction to Front-End Development, Meta – **OCT 2023**