

Mohamed Magdy

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Experience

Software Engineer | IJD Creatives | Full-time

Mar 2025 – Present

- Contributed to the IJD company dashboard website, developing new features and extending existing functionality to improve performance and user experience.
- Collaborated with frontend and mobile teams to integrate RESTful APIs, ensuring seamless communication between services.
- Enhanced and maintained production legacy code, demonstrating strong skills in code review, debugging, and feature implementation.

Technologies: TypeScript, Nodejs, Nest.js, Docker, MySQL, Prisma, Git & GitHub.

Backend Engineer | elmenus | Full-time

Jan 2024 – Nov 2024

- Joined the fleet squad, a cross-functional domain focused on enhancing the Fleet Delivery Management (FDM) and elmenus driver application.
- Designed and implemented REST APIs using Scala with OOP and SOLID principles, developing behavior-driven (BDD) tested endpoints like blocking drivers, breaking shifts, and logging events to WebEngage, significantly improving the FDM user experience.
- Engaged in design meetings for business requirements, also collaborating closely with the frontend, mobile, and product design teams.
- Contributed to weekly chapter meetings to review service performance, monitor logs, address system errors in Datadog, and organize a session about database cursors in foundation meetings with the backend team.
- Served as an active on-call rabbit to solve production issues reported by non-tech teams.
- Worked on Retool, a low-code development platform, to enhance the driver-blocking workflow by automating the process to block multiple drivers simultaneously, resulting in improved efficiency and reduced time costs.

Technologies: Scala, Docker, MySQL, Slick, Retool, Datadog, BDD, WebEngage, Git & GitHub.

Coding Instructor | 3C Online Coding School | Part-time

Oct 2023 – Mar 2024

- Played a pivotal role in managing and preparing Saudi Arabian students to hit the Olympiad AI competition finals.
- Taught Saudi Arabian students Data Structures and Algorithms then applied the topics and concepts by solving problems in online judges such as codeforces.
- Provided hands-on experience to Egyptian students with various programming languages such as Python and JavaScript concepts and in web design such as HTML and CSS.

Tools: C++, JavaScript, Python, HTML, CSS.

Software Engineer Intern | Klivvr | Internship

Jul 2023 – Sep 2023

- Contributed to developing an internal social app for Klivvr employees, enabling them to share memories, create posts, and engage in social interactions.
- Designed and implemented REST APIs with OOP and SOLID principles, to enhance data accessibility and user experience.
- Optimized database queries to ensure efficient data retrieval, and improved app performance and responsiveness.
- Successfully integrated third-party services, including Novu for notifications and SendGrid for email communication.
- Collaborated with the mobile team to integrate the REST APIs and well-documented endpoints providing clear guidelines.

Technologies: TypeScript, Nodejs, Express.js, Docker, PostgreSQL, Prisma, Git & GitHub.

Education

Bachelor's degree in computer science, October 6 university

Sep 2019 – Jul 2023

- GPA: 3.16/4 - Very Good (B+).

Projects

Taskora

As a Backend Engineer for Taskora, I designed and implemented a high-performance task management API that streamlined productivity:

- **OAuth2 Authentication:** Built a secure authentication system supporting Google and GitHub login, implementing code exchange flows and scope management for controlled access to user profile data.
- **Scalable Architecture:** Applied SOLID principles, Singleton, and Repository design patterns, ensuring a maintainable, and scalable codebase.
- **Cloud Deployment & DevOps:** Deployed the application on Azure using Nginx as a reverse proxy and set up a CI/CD pipeline with GitHub Actions for automated deployment.
- **Security Enhancements:** Implemented XSS protection, rate limiting, and other security measures middleware to safeguard the application against common threats.
- **Performance Optimization:** Integrated Redis caching to minimize database load for critical operations like OTP & resend email verification.
- **Data Integrity & Transactions:** Developed database transactions to maintain consistency in complex workflows, such as new user onboarding and project creation with associated tasks.
- **Secure Email System:** Developed an email notification service with SMTP integration for account verification and password recovery, combining OTP-based security.

Demo: Taskora.live

Technologies: TypeScript, Nodejs, Express.js, Docker, MySQL, Prisma, Redis, Nginx, Azure, Git & GitHub.

elmenus Fleet Delivery Management

As part of the ongoing development and optimization of Fleet Delivery Management (FDM), I implemented several features that enhanced operational efficiency and improved driver management processes such as:

- **Driver blocking feature:** Developed a functionality to block drivers from accessing the driver application, and a dedicated database table supported this for logging the reason for blocking and tracking when the drivers are unblocked.
- **Shift breaker tool:** Introduced the ability to break shifts into smaller ones when drivers are deemed unsuitable or when there is insufficient demand for the full shift.
- **Penalty events logging:** Logged events into WebEngage to enable tracking drivers' actions about their behavior such as unassigning them from an order or failing to comply with standards, like not wearing the elmenus uniform in the check-in photo.

Technologies: Scala, BDD, Docker, MySQL, Slick, Git & GitHub.

Dentist Clinic Management – Graduation Project, Grade: Excellent (A)

As part of my graduation project, I developed a web application to manage the clinics of the Faculty of Dentistry at October 6 University. The application was designed to enhance the operational efficiency of the clinics, focusing on:

- **Streamlined reservation system:** Facilitated patient appointment bookings, patient transfers between clinics, and electronic diagnosis processes, improving the overall patient experience.
- **Improved healthcare quality:** Minimized errors in patient care, and compiled health data for research and education.
- **Secure access to medical records:** Provided secure access to patient medical records and limited paper records.

Technologies: HTML, CSS, JavaScript, Nodejs, Express.js, MySQL, Sequelize, Git & GitHub.

Coding Competitions

- Contestant, Coach, Co-coach and problem-setter in the ECPC.
- First accepted in the ECPC qualification round 2022.