

# El-Baraa Samir Radwan

Experienced Back-End Developer in **Node.js (NestJS/ ExpressJS)** development, specializing in high-availability systems using the NestJS and Node.js ecosystems. Expert in architecting scalable **microservices** and optimizing database performance, achieving reduction in API response times through advanced Redis caching and PostgreSQL query tuning. delivering full-lifecycle SDLC solutions for high-growth Fintech and E-commerce startups. Skilled in cloud-native infrastructure (**AWS/Docker**).

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## EDUCATION

*B.Sc. Computer Science / Misr University of Science and Technology*

July 2022

## PROFESSIONAL EXPERIENCE

### Product & Platform Engineer (Contract)

Feb 2024 – Present

Working on contract-based product development for startups and early-stage companies, delivering production-ready web platforms and scalable backend systems used in real-world environments.

- ❖ Architected and deployed enterprise-grade web applications designed to handle high-concurrency usage, with a strong focus on modularity, performance, and long-term maintainability.
- ❖ Designed and implemented robust API layers supporting both REST and GraphQL, significantly improving data access efficiency and system responsiveness.
- ❖ Built and optimized complex, multi-tenant database architectures to ensure data integrity, scalability, and reliable transactional workflows.
- ❖ Led deployment and infrastructure automation efforts, streamlining release cycles and reducing deployment time through containerized environments and CI/CD pipelines.
- ❖ Implemented secure payment workflows and financial logic, supporting automated settlements, commissions, and marketplace-style transactions.

### Software Engineering & Embedded systems | AITC MUST Training

May 2022 - Jul 2022

- ❖ Online Attendance System: Developed an automated solution using face recognition and fingerprints, resulting in a 30% reduction in manual processing time for staff.
- ❖ Home Automation: Built a computer-interfaced control system for load management (HVAC/Media), optimizing residential energy usage through hardware-software integration.

### Full Stack (MERN) Internship | Khtwah

Jan 2022 - May 2022

- ❖ Developed and validated secure RESTful APIs with JWT authentication, handling user session persistence and unauthorized access prevention.
- ❖ Collaborated on containerization strategies using Docker and orchestrated microservices deployment to enhance system reliability during traffic spikes.
- ❖ Conducted comprehensive testing using Jest, achieving 85% code coverage and significantly reducing production bug reports.

## TECHNICAL SKILLS

- Languages: TypeScript, JavaScript (ES6+), SQL
- Testing: Jest (Unit, Integration, E2E), TDD, Postman, OpenAPI/Swagger
- Back-End: NodeJS, ExpressJS, NestJS

- ORMs: Prisma, TypeORM & Mongoose.
- Databases: PostgreSQL, MySQL, MongoDB, Redis (Caching/Messaging), ...etc.
- Infrastructure: AWS (S3, EC2, Lambda), Docker, Kubernetes, CI/CD (GitHub Actions), Nginx.

## PROJECTS

- ❖ The Kitchen
- ❖ Trouble Ticketing System
- ❖ Meetup
- ❖ Movie Reservation System
- ❖ Smart Basket

