

Abdulrhman Adel | Senior Software Engineer

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Summary

Senior Software Engineer with 5+ years of experience in backend and full-stack development, specializing in Node.js, NestJS, React.js, and PostgreSQL. Proven track record of designing scalable microservices, optimizing system performance (30%+ efficiency improvements), and leading cross-functional teams. Passionate about building high-performance, secure, and user-focused applications that support business growth.

Work Experience

Senior Software Engineer | Swiftbox (Aug 2022 – Present, Remote - Part-time)

- Designed and implemented RESTful APIs and GraphQL endpoints, enabling seamless integration with front-end applications.
- Optimized backend queries and caching, reducing system resource usage by 30%.
- Reduced API response times by 40% through query optimization and caching.
- Led adoption of event-driven architecture with RabbitMQ, improving responsiveness and fault tolerance.
- Spearheaded migration towards microservices, enabling the platform to scale and handle 100k+ monthly transactions without downtime.

Senior Software Engineer | TDRA (via Squadio) (Feb 2021 – Present, Remote)

- Architected microservices using Node.js (Loopback 4), improving modularity and maintainability.
- Refactored legacy services, reducing bugs by 25% and improving code clarity.
- Designed ERDs and scalable system architecture, ensuring long-term performance.
- Improved onboarding speed for new developers by 50% through documentation & mentorship.
- Cut deployment issues by 30% with containerization and CI/CD pipelines.
- Conducted code reviews and mentored new team members, improving onboarding and team productivity.

Software Engineer | Alef Software Company (Sep 2018 – Oct 2021, Alexandria)

- Developed backend APIs for e-commerce platforms (Node.js, Express.js).
- Deployed applications on DigitalOcean & Contabo, ensuring reliable scaling.
- Implemented Dockerized environments, reducing build and deployment time by 70%.
- Assisted frontend teams with React.js integration, ensuring smooth API communication.
- Improved system uptime to 99.9% by optimizing hosting and deployments.

Technical Skills

Programming: JavaScript, TypeScript

Frameworks & Tools: Node.js, NestJS, Express, Loopback4, React.js, GraphQL, RabbitMQ, Docker, Git, WebSocket

Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

System Design: Microservices Architecture, ERD, Scalability Planning

Additional Skills: Debugging, Performance Optimization, Code Reviews, Agile/Scrum

Basic Knowledge: Java, C++, PHP, C#, Python

Education

B.Sc. Computer Science | Cairo University (Sept 2012 – May 2018)

Graduation Grade: Good