

# Ahmed Abozaid

Senior Software Engineer

Cairo, Egypt

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LinkedIn GitHub Website

## Profile

Results-oriented Senior Software Engineer with strong expertise in Node.js and Java Spring Boot for building high-performance backend systems. Proven track record of designing and delivering scalable microservices architectures and enterprise-grade applications. Experienced in leading the development of low-code/no-code platforms, payment gateways, and real-time communication systems. Comfortable across the full stack using React.js and Vue.js. Currently working on large-scale automation and web scraping solutions at Rayobyte while collaborating with international teams.

## Skills

**Backend:** Node.js, Nest.js, Java Spring Boot

**Frontend:** React.js, Vue.js

**Databases:** MySQL, PostgreSQL, MongoDB

**DevOps / Tools:** Git, Docker, NGINX, ELK Stack, RabbitMQ, Kafka, WebSockets, GraphQL, REST, Prisma, OpenVidu, ActivePieces

## Work Experience

**Senior Software Engineer** Rayobyte, USA (Remote) Nov 2025 – Present

- Work on large-scale web scraping, data extraction, and automation systems with a strong focus on reliability, performance, and anti-detection techniques.
- Design and maintain modular, automated scraping endpoints with configurable fingerprints, headers, and browser behaviors.
- Build and enhance automation flows for request execution, retries, cookie generation, and session handling across multiple targets.
- Refactor and optimize legacy scraping and automation modules, reducing code complexity while preserving full functionality.

**Freelance Senior Software Engineer** Allup.app, Dubai (Remote) Apr 2024 – Present

- Led maintenance and refactoring of a gym management CRM built on 15 Node.js microservices.
- Delivered real-time analytics dashboards aggregating data from 15+ databases using Nest.js and Node.js, optimized for sub-second response times.
- Built a secure, scalable payment microservice integrating Stripe, Ezypay, and CyberSource using Node.js, Nest.js, Kafka, and HMAC-secured APIs.
- Integrated Hikvision, Sigur, and ZKBio CV gate systems for real-time check-in synchronization via Node.js-based microservices.
- Maintained and enhanced legacy codebases while delivering critical new features within a microservices architecture.

**Senior Software Engineer** Caudex.ai (Converse.ai), Dubai / Riyadh (Remote) Feb 2024 – Oct 2025

- Architected and delivered large-scale Node.js and Java Spring Boot backend modules powering multiple AI-driven systems.
- Built and maintained a low-code/no-code code generation engine using Node.js, Nest.js, Prisma, and Docker, enabling automated full-stack project generation.

- Designed and implemented a full-featured WebRTC video conferencing platform using Nest.js, Node.js, MySQL, RabbitMQ, Redis, and React.js.
- Led complex cross-team integrations, ensuring scalability, maintainability, and high code quality.
- Mentored engineers and reviewed designs to ensure robust, performant software delivery.

**Software Engineer** Connect Professional Services, Cairo (Hybrid) Aug 2022 – Feb 2024

- Developed enterprise supply chain solutions using Java Spring Boot, Node.js, MySQL, and MongoDB to improve operational efficiency.

**Software Engineer** Meet.LLC, Dubai (Remote) Aug 2021 – Jul 2023  
Full-time: Aug 2021 – Jul 2022 Part-time: Aug 2022 – Jul 2023

- Designed and implemented a scalable e-learning platform using C#.NET, Node.js, Couchbase, and RabbitMQ, supporting thousands of concurrent users.
- Built a full-stack online examination system with proctoring features using Django, Node.js, and Vue.js.

## Education

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### MSA University

Bachelor's Degree in Computer Science Sep 2018 – Jul 2022  
GPA: 3.51 (Egypt)

### University of Greenwich

Dual Degree with MSA University, BSc in Computer Science Sep 2018 – Jul 2022  
First Class Honours, GPA: 3.67 (UK)

## Projects

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### Web Scraping Platform (Rayobyte)

Large-scale web scraping platform capable of handling thousands of requests per second using Node.js.

### Code Generation Engine (Caudex)

Low-code/no-code platform generating full-stack applications (frontend, backend, Dockerfiles) with authentication and permission management, Using Node.js/Nest.js

### Gym Management CRM Platform (AllUp)

Maintained, refactored, and enhanced a large-scale gym management CRM composed of 15 Node.js microservices. Improved system stability, performance, and maintainability while implementing new business features across distributed services.

### Workflow Engine (Caudex)

Customized ActivePieces workflow engine with custom pieces and an integrated AI agent for intelligent backend automation.

### Supply Chain System (Connect Professional Services)

Enterprise-grade supply chain application built using Java Spring Boot, Node.js, MySQL, and MongoDB.

### Real-Time Analytics Dashboard (AllUp)

High-performance analytics system aggregating data from 15+ databases for sub-second insights using Node.js

### Video Conferencing Platform (Caudex)

WebRTC-based platform supporting mic, camera, screen sharing, private and group messaging, and live collaboration using Node.js

### Payment Gateway Microservice (AllUp)

Multi-gateway payment microservice integrating Stripe, Ezypay, and CyberSource using Node.js, Nest.js, and Kafka.

## **Publication**

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### **A. Abozaid and A. Atia, "Multi-Modal Online Exam Cheating Detection"**

ICECET, Prague, 2022. doi:10.1109/ICECET55527.2022.9873527

Proposed webcam-based cheating detection techniques (head pose, object detection, eye gaze), achieving 95% accuracy.

## **Languages**

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- Arabic — Native
- English — Fluent (Professional Working Proficiency)

## **Extra Activities**

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- Technical Core Team Member, Google Developer Student Club (GDSC), MSA University
- Vice President, Sage (Computer Science Community), MSA University
- Head of HR & Coordinator, Student Training Committee (MSA-STC), MSA University

## **Certifications**

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- HCIA – Huawei Artificial Intelligence Program
- IBM Cloud Application Developer Mastery Award
- COVID-19 Hackathon Challenge Participant