

Ahmed Abozaid

Senior Software Engineer

Cairo

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Profile

I am Ahmed Abozaid, currently working as a Software Engineer at COMVERSE.ai. I am passionate about web development and specialize in building scalable, efficient solutions. With a strong background in integrating backend technologies, I focus on delivering robust and high-performance applications. I am a fast learner, highly responsible, and always eager to expand my knowledge, thriving in collaborative environments.

Personal Information

- Dob: 29/11/2000
- Website
- LinkedIn
- GitHub

Skills

Spring Boot

TypeScript (Node.js, NestJS)

Vue.js

SQL (MySQL, PostgreSQL)

Docker

RabbitMQ

WebSockets

Prisma

Keras

JavaScript

.NET

React.js

NoSQL (MongoDB, Couchbase)

Nginx

Kafka

GraphQL

OpenVidu

OpenCV

Education

MSA University

Bachelor's degree in Computer Science

September 2018 – July 2022

Egypt GPA: 3.51

University of Greenwich

Dual degree with MSA University, Bachelor of Science in Computer Science

September 2018 – July 2022

Graduated with First Class Honours

UK GPA: 3.67

Work Experience

Senior Software Engineer

Comverse.ai, Riyadh

February 2024 – Present

- Developing, testing, and maintaining backend services, APIs, and databases to ensure software applications perform optimally.
- Designing and implementing database schemas, queries, and optimizations to guarantee data integrity, reliability, and efficiency.
- Thoroughly documenting code, APIs, and technical specifications to facilitate collaboration, troubleshooting, and future maintenance.
- Collaborating closely with frontend developers, software architects, and QA engineers to deliver high-quality software solutions on time and according to specifications.
- Leading a team to produce high-quality, maintainable code while ensuring project deadlines are met.

Software Engineer

Connect Professional Services, Cairo

August 2022 – February 2024

- Contributed to the development of web solutions and integrated backend technologies to deliver efficient and high-performing applications.

Software Engineer

MeetPlatforms.ae, Dubai

August 2021 – July 2023

- Assisted in the design and implementation of a highly scalable e-learning platform capable of supporting millions of users.
- Independently developed a full-stack video conferencing web application, incorporating features such as Q&A sessions, a whiteboard, chat functionality, and breakout rooms.

Projects

Video Conference App

Developed using WebRTC and OpenVidu. Features include mic, camera, screen sharing, messaging with different scopes, live activities (e.g., Kahoot), virtual background, calendar, chat, scheduling, and more. Technologies used: Node.js, MySQL, WebSockets, RabbitMQ, Redis, React.js, NestJS, SQL, Vue.js.

E-Learning Platform

Implemented with C#.NET, Couchbase, and RabbitMQ.

Online Exam App

Built with Django, Node.js, and Vue.js, incorporating monitoring features.

Supply Chain App

Developed using Java Spring Boot, Node.js, MySQL, and MongoDB.

Social and Warranty App for Products

Created with NestJS, Redis, and MySQL.

Code Generation Engine

Developed with NestJS.

EEG Cheating Detection

Conducted on a self-collected dataset using Python. Techniques include Random Forest, LSTM, and CNN. Head pose estimation with VGG16 and object detection with RetinaNet were combined into an online exam cheating detection system. Technologies used: Keras, Python. (Graduation Project)

Medical Examination Lab System Web App

Created for a charity organization using HTML, CSS, JS, and PHP, including a full system analysis.

Clothes Factory System

Conducted a full analysis and partially implemented the system using Java and Oracle Database.

Chat App

Implemented with RSA encryption algorithm using C#.

Travel Agency Application

Full-stack development with NestJS and Vue.js.

Integration of Gate Systems

Integrated gate systems with legacy applications.

Publication

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

2022 International Conference on Electrical, Computer and Energy Technologies (ICECET), Prague, Czech Republic, 2022, pp. 1-6.

doi: 10.1109/ICECET55527.2022.9873527

Summary: The paper proposed a system to detect cheating in online exams using a webcam and reporting to the proctor for suspected students. The modalities used are head-pose, object detection, and eyegaze estimation. Tested and evaluated on 29 MSA students with four exam sessions. The multi-modalities experiment had an accuracy of 95%.

Certifications

- HCIA - Huawei's AI Program
- IBM - Cloud Application Developer Mastery Award
- Covid-19 Hackathon Challenge Participation

Extra Activities

- Technical Core Team, DSC (Google Developer Student Club) at MSA University
- Vice President, Sage (CS Community) at MSA University
- Head of HR & Coordinator, MSA-STC (Student Training Committee) at MSA University