

# ABDELRAHMAN MOHAMMED

Cairo, Egypt · abd.moh.yousef@gmail.com · +201026483043  
github.com/sherlemious · sherlemious.com · linkedin.com/in/sherlemious

## EDUCATION

<b>German University In Cairo</b> Bachelor of Engineering in Computer Science and Engineering	Cairo, Egypt October 2021 - (July 2026)
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## EXPERIENCE

<b>Learning Management System</b> <i>Project Manager &amp; Backend Software Engineer</i>	Freelance Client Project July 2024 - May 2025
<ul style="list-style-type: none"><li>Architected and implemented a scalable backend using <b>Express.js</b> and <b>PostgreSQL</b>, handling 1,000+ daily active users with 99.9% uptime</li><li>Led technical planning and database design, implementing role-based access control for students, teachers, and administrators</li><li>Managed development lifecycle using Agile methodologies, conducting stakeholder interviews and iterating based on user feedback</li></ul>	
<b>Astronomic</b> <i>Junior Software Engineer</i>	Remote May 2024 - January 2025
<ul style="list-style-type: none"><li>Increased data quality by reducing invalid records to below 1% by implementing similarity algorithms, enabling effective de-duplication and error correction in large datasets.</li><li>Designed and implemented scalable <b>Node.js Typescript</b> pipelines, processing 10M+ investor and company records, decreasing pipeline runtime by 90% through advanced <b>MongoDB</b> aggregations.</li></ul>	
<b>German University in Cairo</b> <i>Junior Teaching Assistant</i>	Cairo, Egypt February 2023 - May 2024
<ul style="list-style-type: none"><li>Guided 40+ students during lab sessions, helping them understand and implement <b>OOP</b> concepts in <b>Java</b>.</li><li>Assisted students in solving programming problems in <b>Prolog</b> and <b>Haskell</b>.</li></ul>	
<b>Trax Group</b> <i>Software Engineering Intern</i>	Cairo, Egypt July 2023 - September 2023
<ul style="list-style-type: none"><li>Developed features for a motorcycle shop management system using <b>Dynamics 365</b>, including custom forms and data models</li><li>Implemented <b>X++</b> business logic for inventory and service workflow automation</li></ul>	

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Python, Typescript, Javascript, Java, C
<b>Technologies:</b>	Express.js, Node.js, Django, Flask, Git, React.js, AWS, Docker
<b>Databases:</b>	PostgreSQL, MongoDB, MySQL, PrismaORM, Mongoose

## PROJECTS

<b>Mern Stack Tourism Website</b> Led development of a full-stack tourism platform using <b>MERN</b> stack, implementing features like real-time booking and purchasing, Stripe integration, and user authentication. Achieved 100% score and performance bonus while managing a team of 10 developers using Agile methodologies.	github.com/Advanced-computer-lab-2024/Are-we-there-yet
<b>Database Engine</b> Built a custom database engine in <b>Java</b> featuring B+ Tree indexing, efficient data pagination, and ACID-compliant transactions. Implemented query optimisation, achieving O(log n) search complexity.	github.com/Sherlemious-GUC-Projects/DB2-Project1
<b>IGCSE CS PseudoCode Web Compiler</b> Developed a web compiler that helps IGCSE CS students validate and execute their pseudocode solutions.	https://www.pseudocode-compiler.sherlemious.com
<b>React.js, Typescript, Django, Python</b> <b>The Last of Us Game</b> Implemented a 2D game using <b>Java</b> , utilising <b>OOP</b> concepts.	github.com/Sherlemious-GUC-Projects/Game-Milestone-3

## LEADERSHIP AND AWARDS

<b>ECPC Qualifications Participant</b>	2022, 2023, 2024
<b>The Intelligent Question (TIQ) - President</b> Led a debate club, organized events, and mentored members to improve critical thinking and public speaking skills.	September 2023 - July 2024