Yasser Assoul

Mathematics & Computer Science Teacher
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Summery

Enthusiastic and adaptable Mathematics and Computer Science Teacher with a strong passion for engaging young learners at the primary, middle, and secondary school levels. Experienced in delivering interactive and inclusive lessons in core mathematical concepts, logical reasoning, and basic programming. Skilled at adapting teaching methods to suit a variety of learning styles, fostering curiosity, critical thinking, and foundational problem-solving skills in students. Committed to using technology and real-world examples to make abstract concepts accessible and enjoyable.

Education

Master's Degree in Big Data Analysis
University of Science and Technology Houari Boumediene (USTHB) — Algiers, Algeria
Expected To be Graduated: September 2025
Relevant Coursework:
- Distributed Systems & Cloud Computing
- Data Warehousing & Business Intelligence
- Statistical Analysis & Predictive Modeling

Key Projects:
- **Multi-Factor Authentication System:** Led a team to develop a secure authentication system combining biometrics (face, fingerprint), geolocation, and OTP/password, with a focus on analyzing authentication levels.
- **ETL Pipeline with Oracle SQL:** Built an ETL system to extract, transform, and load data into a warehouse for analysis using BI tools, improving data accessibility and reporting.
- **Distributed MongoDB:** Implemented sharding and replication in MongoDB to optimize performance, scalability, and fault tolerance in distributed environments.

Bachelor's Degree in Computer Science
University of Science and Technology Houari Boumediene (USTHB) — Algiers, Algeria
Graduated: 2023
Relevant Coursework:
- Algorithms & Data Structures
- Software Engineering (UML, Conception, Optimization)
- Operating Systems (C)
- Databases & Web Development (Oracle SQL, Javascript)
- Object-Oriented Programming (Java)
- Artificial Intelligence Fundamentals (Python)

Key Projects:
- **Library Management System:** Front-End application using Java, and Swing.
- **Compiler Design Project:** Built a mini-compiler similar to python using Flex and Bison.
- **Capstone Project:** Developed a mobile and backend system for Ooredoo to streamline SIM card market analysis by enabling field agents to collect geolocated data, upload images, and submit customizable digital forms, all secured with role-based access control and stored in a MySQL-backed infrastructure.

Languages
- **Arabic** – Native proficiency
- **English** – Full professional proficiency (CEFR Level: B2)
- **French** – Intermediate proficiency (CEFR Level: A2)

Skills And Core Teaching Subjects
- **Teaching & Learning:**
    - Lesson Planning and Classroom Management
    - Age-Appropriate Curriculum Development
    - Student-Centered Instruction and Differentiated Learning
    - Formative and Summative Assessment Design
    - Educational Technology Integration (e.g., Scratch, Google Classroom)
- **Mathematics (K–12 Focus):**
    - Arithmetic, Fractions, Ratios, and Algebra
    - Geometry and Spatial Reasoning
    - Probability, Statistics, and Data Literacy
    - Logic, Patterns, and Mathematical Reasoning
- **Computer Science (Introductory Level):**
    - Computational Thinking and Problem Solving
    - Basic Programming Concepts (Scratch, Python)
    - Algorithms and Flowcharts
    - Internet Safety and Digital Literacy
    - Introduction to Robotics or Visual Programming

Education & Teaching Experience
Private Mathematics and Computer Science Tutor — Teacher and instructor

Algeria, Algiers | *Jan 2023 - Present*
- Taught foundational math concepts including arithmetic, basic algebra, and geometry to primary and middle school students.
- Introduced programming through visual tools and age-appropriate Python exercises.
- Created engaging activities, games, and real-life problem scenarios to support concept retention.
- Supported students with homework, exam preparation, and confidence building in STEM subjects.
- Provided one-on-one and small-group instruction to bachelor's students in core subjects such as algorithms, data structures, databases, and software engineering principles.
- Helped students improve academic performance and project readiness through personalized lesson plans and practical coding exercises.
- Simplified complex technical topics into intuitive explanations using real-world analogies and step-by-step breakdowns to match each student's learning style

School Of AI Algerie — Development Department Mentor

Algeria, Algiers | *November 2023 - June 2024*

- Mentored and trained aspiring developers in software engineering best practices, including clean code, testing, and version control.
- Designed and delivered structured workshops covering backend, frontend, and project management fundamentals.
- Organized collaborative coding events and hackathons to enhance real-world development skills.

Work Experience

Baraka Box — Project manager & Full Stack Software Engineer

Algeria, Medea | *January 2025 - June 2025*

- Directed a cross-functional team of developers and designers, providing technical mentorship and overseeing all stages of project development.
- Led onboarding and continuous training efforts to enhance team capabilities, resulting in improved development speed and software quality.
- Designed and launched a scalable delivery management platform using Django, PostgreSQL, Next.js, and Flutter, achieving a 50% performance improvement.

Sphinx International — Team Lead & Backend Engineer

Algeria, Algiers | *March 2024 - March 2025*

- Led and mentored a team of developers, conducting code reviews, technical workshops, and one-on-one coaching sessions.
- Fostered a collaborative development environment by setting coding standards, introducing agile practices, and overseeing team workflows.
- Architected and delivered an automated reporting system with Django REST Framework, Redis, and MySQL, deployed via Docker across multi-environment VPS infrastructure.

OOREDOO — Full Stack Developer Intern

Algeria, Algiers | *January 2023 - June 2023*

- Developed a mobile application and backend system to streamline SIM card market analysis data collection and reporting.
- Designed customizable digital forms with image upload features, integrated with automated localization and MySQL for efficient data storage.
- Implemented role-based access control to ensure secure, structured access to collected data across different user roles.

Certifications & Achievements

Winner – Let's Manage Competition By Google Development Group

Recognized for strategic thinking and teamwork in a business and project management competition.

Instructor – Bootcamp Workshop (TechVerse Club)

Delivered backend training sessions, helping new students learn practical web development skills..

Organizer – CUB TECH Camp Workshop

Contributed to organizing a hands-on tech workshop, handling logistics, coordination, and student engagement.

Internship Certificate – Ooredoo Algeria

Completed a hands-on internship focused on building a data collection and analysis system to support market intelligence.