Ahmed Osama Ali *Software Engineer*

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📍 Mansoura, Dakahlia, Egypt   📅 16th September 2000

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github.com/ahmedosamamath   kaggle kaggle.com/ahmedosamamath

📇 PROFILE

Motivated and adaptable Software Engineer with a strong foundation in full-stack web development, software architecture, and problem-solving. Successfully completed the competitive 9-month Software Engineering program at ITI, where I gained hands-on experience building real-world applications using modern technologies like JavaScript, Node.js, React, SQL, Docker, and more. Previously worked as a freelance developer on Upwork, delivering high-quality, client-focused web solutions across multiple industries. Passionate about clean code, continuous learning, and creating impactful digital products. Actively maintain open-source projects and educational content to share knowledge and give back to the tech community.

💼 PROFESSIONAL EXPERIENCE

Software Engineer, *Information Technology Institute (ITI)*   July 2024 – April 2025 | Mansoura, Egypt
- Completed an intensive 9-month full-time program in Software Engineering, focusing on full-stack web development, software architecture, and real-world project implementation.
- Built multiple end-to-end applications using technologies such as HTML5, CSS3, JavaScript, Node.js, Express.js, MongoDB, SQL, Git, and Docker.
- Applied Agile/Scrum practices in collaborative team projects simulating real business environments.
- Designed and developed RESTful APIs, implemented authentication/authorization, and handled state management for scalable applications.
- Participated in regular code reviews and sprint planning sessions to enhance code quality, collaboration, and time management.
- Delivered multiple capstone projects and demos, receiving feedback from industry experts and adapting to real-time project requirements.
- Enhanced skills in OOP, data structures & algorithms, system design, and software development best practices.
- Attended soft skills workshops in communication, teamwork, presentation, and problem-solving, preparing for industry-level work environments.

Military Service, *Career Break*   February 2023 – April 2024 | Cairo, Egypt
I joined the military service

Freelance Full-Stack Web Developer, *Upwork*   October 2020 – January 2023
- Designed and developed custom websites and web applications for clients across various industries, ensuring functionality, responsiveness, and user-friendly experiences.
- Collaborated with clients to gather requirements, propose solutions, and deliver high-quality projects within deadlines and budgets.
- Specialized in front-end and back-end development using technologies like HTML, CSS, JavaScript, PHP and Laravel Framework.
- Integrated APIs, optimized websites for performance and SEO, and implemented secure payment gateways.
- Built a strong reputation on Upwork by maintaining a high client satisfaction rate and earning positive reviews for reliability, communication, and technical expertise.

🎓 EDUCATION

Mansoura University,   2018 – 2022 | Mansoura, Egypt
Bachelor of Arts in Geography and Land Surveying
Activities and societies: Member of the Geography Club and participated in land surveying field projects and academic seminars.
Studied physical and human geography with a focus on land surveying techniques, GIS, and spatial analysis.

📁 PROJECTS

Personal Portfolio Website
A personal portfolio website, showcasing my projects, skills, and professional experience.
Check it out here: https://github.com/AhmedOsamaMath/Portfolio

To-Do App
Modern task management application with priority levels and due dates, built using Python and Tkinter. Features an intuitive GUI and persistent storage.
Check it out here: https://github.com/AhmedOsamaMath/To-Do-App

DayWise - Task Management Application
DayWise: A personal productivity and time management application that helps you organize your daily tasks, track your progress, and maximize your efficiency. Built with modern technologies to provide a seamless user experience across devices.
Check it out here: https://github.com/AhmedOsamaMath/daywise

Chess Game
A Python-based chess game with a graphical interface built using Pygame. Features include basic chess rules implementation, piece movement validation, check/checkmate detection, and a simple AI opponent that makes random legal moves.
Check it out here: https://github.com/AhmedOsamaMath/chess-game

🏠 ORGANISATIONS

YouTube Channel, *Mathematics Teacher*
- Provide free, high-quality mathematics lessons to middle and high school students, focusing on foundational concepts and advanced topics.
- Develop engaging, interactive lesson plans tailored to students' needs and educational standards.
- Utilize various teaching methods, including real-life applications and problem-solving strategies, to enhance understanding and foster a love for mathematics.
- Aim to make education accessible and inspiring for students, contributing to their academic success and confidence in math.

Check it out here: https://www.youtube.com/@AhmedOsamaMath

🧠 SKILLS

HTML │ JavaScript │ TypeScript │ Node.js │ React.js │ PHP │ Laravel │ Express.js │ PostgreSQL │ MySQL │ SQL │ Docker │ Python │ OOP │ Flask │ Selenium │ AWS │ Git │ Linux │ RESTful APIs │ Agile Methodologies │ Unit Testing │ Integration Testing │ CI/CD │ MVC Architecture │ JSON │ HTTP Protocol

📖 PUBLICATIONS

Linux Basics
Comprehensive Linux Basics: A complete guide covering foundational Linux concepts, core tasks, and best practices.
Check it out here: https://github.com/AhmedOsamaMath/linux-basics

Git Basics
Comprehensive Git Guide: A complete resource covering Git fundamentals, workflows, advanced techniques, and best practices for version control and collaboration.
Check it out here: https://github.com/AhmedOsamaMath/git-basics

PostgreSQL Basics
A beginner-friendly guide to PostgreSQL covering installation, basic commands, SQL queries, and database management techniques.
Check it out here: https://github.com/AhmedOsamaMath/postgresql-basics

🌐 LANGUAGES & INTERESTS

Languages: Arabic (Native), English (Professional Working Proficiency)

Interests: Open-source contributions, mentoring in mathematics