Osama Alwaly

Software Engineer

Profile

A recent computer engineering graduate, passionate about software engineering and artificial intelligence engineering. My most important skills are continuous learning, a love of knowledge and science, problem-solving, and creating innovative solutions.

Education

Bachelor of Engineering,Computer Engineering Department at Port Said University

October 2020 - July 2025

Grade: Good

Studied core subjects including Software Engineering, Algorithms & Data Structures, Database Systems, AI & Machine Learning, Computer Networks, Operating Systems, and Embedded Systems. Graduation Project – SmartBrace (AI Engineer): Developed healthcare monitoring models achieving 90–95% accuracy in classification. Internships: 3-month training at Faculty of Engineering (Software & Engineering Fundamentals) 3-month training at Suez Canal Authority (Applied Engineering & IT Systems)

Internships

Intern – Electronics & Software Engineering at Faculty of Engineering – Port Said University, Port Foad, Egypt

June 2022 - September 2022 • ↗

- Gained practical experience in Electronics Laboratories and applied engineering concepts.
- Trained on MATLAB for simulation, analysis, and problem-solving in engineering tasks.
- Introduced to Software Engineering principles including requirements analysis and system design.

Intern – Computer Networks at Suez Canal Authority, Port Foad,Egypt

June 2023 - September 2023 • ↗

- Acquired knowledge of Computer Networks fundamentals and network administration.
- Learned about network infrastructure and applied concepts of configuration and troubleshooting.
- Enhanced understanding of large-scale IT systems in an industrial environment.

Volunteering

Volunteer Speaker at Pioneer of Success Initiative, Egyptian Ministry of Youth and Sports, Port Said, EG

August 2025 - August 2025

- Interactive Online Session via Google Meet
- Delivered an interactive lecture to trainees on the effective use of LinkedIn for professional networking and job searching.

Info

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Port Said, Egypt

Links

LinkedIn

GitHub

Skills

Frontend: HTML5 | CSS3 | JavaScript (ES6+) | TypeScript | React.js | Next.js | Redux | Tailwind CSS | Responsive Design | API Integration | Testing (Jest)

Backend: Node.js | Express | RESTful APIs | MongoDB

DevOps & Tools: Git | Docker (in progress) | GitHub

UI/UX: Figma | User Research

Databases & ORM: MongoDB (Proficient) | SQL Server (Intermediate)

Core Concepts: Problem Solving | Data Structures | Algorithms | SOLID | Design Patterns | Agile

Soft Skills: Communication | Teamwork | Problem-Solving | Adaptability | Time Management | Creativity | Leadership | Critical Thinking | Attention to Detail | Continuous Learning

Certificates

Web Development Challenger Track from Udacity - EGFwd

September 2021 • ↗

Completed an intensive program covering HTML, CSS, JavaScript, and Git/GitHub.

Built hands-on projects applying responsive design, DOM manipulation, and version control.

- Demonstrated how to apply AI-powered tools to prepare for interviews and navigate the job market.
- Guided participants on optimizing CVs and building a strong online presence.
- Enhanced trainees' awareness of career development strategies and digital employability skills.

Projects

Graduation Project – SmartBrace (Sigma) - AI Engineer • ↗
Built and deployed AI classification models (90–95% accuracy) using Python/Jupyter. Integrated models with backend via pickle format for real-time healthcare monitoring. Contributed to AI-driven disease prediction (stroke, autism, asthma). Tech Stack: Python, Scikit-learn, Pandas, NumPy, FastAPI, Node.js, Flutter, React, MongoDB, AWS.

Languages

Arabic - Native
English - Fluent
German - Conversational

Gained strong foundations in frontend web development and best coding practices.

Data Analysis Challenger Track from Udacity - EGFwd
September 2021 • ↗
Learned Python fundamentals for data analysis.

Applied NumPy and Pandas for data wrangling and cleaning.

Conducted exploratory data analysis (EDA) through practical projects.

Effective Communication Skills Program from Arab Academy for Science, Technology & Maritime Transport
October 2024 • ↗
Training on professional communication, active listening, presentations, teamwork, and interpersonal effectiveness.

Additional verified certificates in Web Development, Data Analysis, Artificial Intelligence, UX Design Fundamentals, and Soft Skills are available here:
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