

Mohamed Samir

Software Engineer

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PROFILE

Software Engineer with a data-driven mindset and a strong foundation in Computer Science, delivering full-stack solutions using the MERN stack. Actively advancing expertise in Artificial Intelligence, Machine Learning, Data Analysis, and Data Science, with a focus on transforming data into actionable insights that support smarter decision-making. Driven by a problem-first, analytical approach to building intelligent systems, with a long-term goal of integrating software engineering and advanced analytics to create scalable, high-impact, future-ready applications.

EDUCATION

Suez Canal University	09/2020 – 06/2024
Bachelor's Degree in Computer Science	Ismailia, Egypt
GPA: 3.0/4.0	

PROFESSIONAL EXPERIENCE

Data Analysis Trainee	11/2025 – Present
National Telecommunication Institute - NTI	Port Said, Egypt
<ul style="list-style-type: none">Gained hands-on experience in data analysis and visualization using Excel (including Power Query), SQL Server, Power BI, and Tableau.Skilled in Python programming for data manipulation and analysis using NumPy, Pandas, Matplotlib, and Seaborn.Experienced in data preprocessing, handling, and cleaning to ensure high-quality datasets.Derived actionable insights and recommendations to support business decisions.Familiar with data modeling, ERD design, and mapping for structured data management.Applied data warehousing concepts to efficiently organize and retrieve large datasets.Focused on transforming raw data into meaningful visualizations for effective communication of results.	

AI & Machine Learning Trainee	08/2025 – 08/2025
National Telecommunication Institute - NTI	Port Said, Egypt
<ul style="list-style-type: none">Completed the HCIA-AI V4.0 program offered by Huawei ICT Academy-Egypt in collaboration with the National Telecommunication Institute (NTI).Received in-depth training in Artificial Intelligence fundamentals, including machine learning and deep learning.Gained practical experience with Python programming, data preprocessing, TensorFlow, and model evaluation.	

- Developed a strong understanding of applying AI technologies to solve real-world problems across various domains.

MERN Stack Developer Trainee

10/2024 – 04/2024

Port Said, Egypt

Digital Egypt Pioneers Initiative - DEPI

- Studied and applied MERN stack development with a focus on React front-end development.
- Gained hands-on experience with HTML, CSS, Bootstrap, Tailwind CSS, JavaScript, TypeScript, and React.
- Explored back-end technologies including Node.js, Express, NoSQL (MongoDB), and RESTful API development.
- Implemented Authentication & Authorization and performed API testing using Postman.
- Used Git/GitHub for version control and collaboration.
- Gained experience in cloud hosting and deployment using Vercel.

SKILLS

Programming Languages

- C
- C++
- Python

AI & Machine Learning

- TensorFlow
- Scikit-learn
- Jupyter Notebook
- Google Colab

Soft Skills

- Problem Solving,
- Time Management,
- Continuous Learning,
- Critical Thinking,
- Decision Making

Front-End Technology

- HTML
- CSS
- SCSS
- Bootstrap
- Tailwind CSS
- JavaScript
- TypeScript
- React.js

Data Analysis & Visualization

- Excel
- SQL Server
- Power BI
- Tableau
- NumPy
- Pandas
- Matplotlib
- Seaborn
- Data Cleaning & Preprocessing
- Data Modeling
- ERD Design
- Data Warehousing

Back-End Technology

- Node.js
- Express.js
- MongoDB
- RESTful APIs
- Authentication & Authorization
- Postman
- FastAPI
- Flask
- Django

Developer Tools

- Visual Studio Code
- Git & GitHub
- Postman
- Netlify
- Vercel
- Notion
- Figma

PROJECTS

Telecom Customer Churn Analysis

11/2025 – 12/2025

Data Analysis Project

- Analyzed telecom customer churn data to identify behavioral, service, and contract-related drivers of customer attrition.

- Cleaned, transformed, and segmented customer data using SQL and Excel to uncover churn patterns across demographics, subscriptions, and billing methods.
- Evaluated churn impact by contract type, internet service, and value-added services such as security and technical support.
- Designed interactive dashboards in Power BI and Tableau to visualize churn trends, high-risk customer segments, and retention opportunities.
- Delivered data-driven insights to support customer retention strategies and improve customer lifetime value.

Burns Degree Classification

08/2025 – 08/2025

AI & ML Project

- Developed an AI-based image classification system to identify and categorize burn injuries by degree (first, second, third).
- Implemented Convolutional Neural Networks (CNNs) using Python and TensorFlow.
- Performed data preprocessing and augmentation using NumPy and Pandas.
- Improved model accuracy through hyperparameter tuning and evaluation metrics.
- Targeted medical image analysis applications to support real-world healthcare solutions.

Polaris ☀

12/2024 – 04/2025

MERN Stack Project

- Developed travel blog and social platform for users to share, discover, and interact with travel experiences worldwide.
- Built using the MERN stack (MongoDB, Express.js, React.js, Node.js) with Tailwind CSS and Bootstrap for responsive UI design.
- Implemented RESTful APIs, authentication & authorization, and cloud deployment using Vercel and GitHub.
- Designed a user-friendly interface to enhance engagement and accessibility.

Finder | Real Estate ☀

12/2024 – 01/2025

Front-end Project

- Developed a website to simplify property searches with advanced filters and detailed listings.
- Built using HTML, CSS, and JavaScript, incorporating bilingual support (Arabic/English).
- Implemented light/dark mode to enhance user experience and accessibility.

Finder | Contractor ☀

11/2024 – 12/2024

Front-end Project

- Developed website to help users find and hire local professionals for home projects (cleaning, plumbing, roofing).
- Built using HTML, CSS, and JavaScript, focusing on clean UI design and smooth navigation.
- Designed an intuitive search experience to improve user engagement and accessibility.

Nearest Shop ☀	12/2023 – 06/2024
Graduation Project	
<ul style="list-style-type: none">Developed a location-based web and mobile app providing real-time, personalized store recommendations.Built backend services using Node.js, Express.js, and MongoDB.Collaborated on frontend development with HTML, CSS, JavaScript, and mobile app using Flutter.Designed UI/UX wireframes in Figma for intuitive user experience.Integrated AI modules in Python to enhance recommendation accuracy.Enabled users to discover nearby stores and make informed shopping decisions.	

Bookie ☀	12/2021 – 01/2022
Front-end Project	
<ul style="list-style-type: none">Developed a web application for browsing, reading, and purchasing books.Built the project using HTML, CSS, and JavaScript.Designed an intuitive user interface with smooth and user-friendly navigation.Implemented features to explore a wide range of online books efficiently.	

CERTIFICATES

- CS50 Introduction to Computer Science Certificate – Harvard University
- AI & Machine Learning - Sprints x Microsoft Summer Camp Certificate
- Web Development - Sprints x Microsoft Summer Camp Certificate
- React Frontend Web Developer Certificate – Digital Egypt Pioneers Initiative (DEPI)
- HCIA-AI V4.0 Certificate – Huawei ICT Academy, Egypt
- Artificial Intelligence (AI) Certificate – NTI/Huawei Egyptian Talent Academy

LANGUAGES

Arabic	English
Native	Level B2

VOLUNTEERING

Video Editor	12/2023 – 06/2024
Trosc	Ismailia, Egypt
<ul style="list-style-type: none">Volunteered to create educational content in programming for university students.Produced and edited videos on Data Structures and Algorithms (DSA) topics, including Heap Sort, to simplify complex concepts and enhance student learning.Collaborated with the media team to ensure high-quality, engaging video materials.	

Graphic Designer

Msh Hackers

- Designed visual content to support educational programming initiatives within the university team.
- Created graphics that improved the presentation and clarity of learning materials.
- Contributed to the overall quality and appeal of educational resources through creative design solutions.

10/2020 – 10/2022

Ismailia, Egypt