

# Mohamed Samir

## Software Engineer

✉ mohamedsamir093@gmail.com ☎ 01272964500 📍 Port Said, Egypt 🌐 LinkedIn

🐙 GitHub 📁 Portfolio 🗣 WhatsApp 📠 Telegram

### 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

Bachelor's Degree in Computer Science  
GPA: 3.0/4.0

09/2020 – 06/2024

Ismailia, Egypt

### PROFESSIONAL EXPERIENCE

---

#### Data Analysis Trainee

National Telecommunication Institute - NTI

11/2025 – Present

Port Said, Egypt

- 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

National Telecommunication Institute - NTI

08/2025 – 08/2025

Port Said, Egypt

- 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**

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.

10/2024 – 04/2024  
Port Said, Egypt

**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**

Data Analysis Project

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

11/2025 – 12/2025

- 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

- 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

- 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

Native

### English

Level B2

## VOLUNTEERING

---

### Video Editor

12/2023 – 06/2024

#### Trosc

Ismailia, Egypt

- 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**

10/2020 – 10/2022

Msh Hackers

Ismailia, Egypt

- 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.