

Ahmed Salah El-Din Shemais

Software Engineer

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🎓 Education

Bachelor's Degree - Systems & Biomedical Engineering, *Cairo University*

2016 – 2021

💼 Professional Experience

Freelance Web Developer

2020 – present

Delivered and deployed multiple websites to clients, e.g.:

- E-Learning system using Moodle. ☑
- Company website and product showcase using WordPress. ☑
- Startup website made using NodeJS and Bootstrap. ☑

📁 Projects

Personnel Recruitment & KPI Monitoring Website ☑

A recruitment system for student organizations containing a custom application form creator, filtration, statistics, interview scheduling, user permissions, and KPIs monitored. Currently deployed to 2 organizations.

- Designing & implementing dynamic websites.
- Designing & implementing RESTful APIs.
- Website deployment & administration.
- Using external APIs.

Used Technologies: NodeJS, Google APIs (Sheets, Recaptcha), MySQL, Sequelize ORM, jQuery, Bootstrap.

Automatic CaScoring From Chest CT ☑

A 3DSlicer plugin connected to a DL model deployed to AWS, segments chest CT and calculates the CaScore.

- Applying event-driven programming using PyQt.
- Processing medical images.
- Training & using DL models and integrating them into existing systems.
- Creating multithreaded and multiprocess apps.
- Deploying apps to AWS.

Used Technologies: Python, PyQt5, PyTorch, Linux, AWS, Flask.

Healthcare CMMS, A feature-rich hospital CMMS ☑

- Designing and Implementing a SQL DB, Backend, and Frontend.

Used Technologies: NodeJS, SQLite, Sequelize ORM, Socket.IO, jQuery, Bootstrap

DMaxCare, A Dental Services-Oriented HIS ☑

- Designing and Implementing the DB, Backend, and Frontend.

Used Technologies: NodeJS, MySQL, Sequelize ORM, jQuery, Bootstrap

Other Projects ☑

- Shazam Replica: Python, PyQt, DSP.
- Self-Driving Car: Arduino, C++, OpenCV, JavaScript, Ionic, Meteor.
- Smart-Hospital System: Arduino, C++, Java, Android.
- In-Door Tracking: Arduino, C++, Firebase, JavaScript, Ionic, Meteor.
- Smart-Home Security System: AVR, Arduino, C++, Proteus. ☑
- BBot Discord Bot: NodeJS, TypeScript, MongoDB. ☑

🧠 Technical Skills

Programming Languages

JavaScript | TypeScript | Python | C/C++ | PHP | Java

Computer Science

OOP | Databases | Data Structures | Algorithms | Asynchronous Programming | Event-Driven Programming

Frameworks

ExpressJS | Flask | React | Bootstrap | PyQt | Meteor | WordPress | Moodle | jQuery

Technologies

NodeJs | AWS EC2 | Socket.IO | Docker

Programming Fields

Web Development | Desktop Apps | Web-Based Android Apps | Native Android Apps

Database

MySQL | SQLite | MongoDB

Embedded Systems

AVR | Arduino

Other

GSuite Administration | APIs | VPS | Linux

🏠 Extracurricular Activities

IEEE CUSB, Head of Information Technology

Enactus Cairo University, Projects Member ☑

AIESEC, Middle Management

🏆 Awards

1st Place in The Smart Hospital System Design Competition, *Cairo University*

1st Place in Smart Home System Using AVR Competition, *K-Vector*

2nd Place in Robotic Arm Competition Using Arduino, *K-Vector*

🔑 Interests

Technology | Reading | Gaming | History
Economics | Volunteering