

Mohamed Sallam

Software Engineer

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Work Experience

Master Micro

Software Engineer

Sep 2022 - Present

Software Engineer Intern

Jul 2022 - Sep 2022

- Created reusable components for Qt/C++ front-end by performing some **algorithms and data structures** concepts and using **C++ STL functions and containers**.
- Applied **object-oriented design concepts** and **design patterns**, for example, create a undo/redo behavior for a text editor using *Command Pattern*.
- Performed **cleaner version control workflow** and Learned more intermediate **Git** topics.
- Learned and performed a bunch of **programming principles** (eg, KISS, YAGNI, DRY, ...).
- Started new position as a Part-Time Software Engineer and rewarded for **outstanding performance** in the internship.
- Created a fully functional plotting widget using QwtPlot and performed some **scientific computation concepts**.

C++

Java

CMake

Qt

Object-Oriented Design

Design Patterns

JUnit

Gradle

QtTest

Scrum

Git/GitHub

REST APIs

Regex

Algorithms and Data Structures

Python

Doxygen

PySide2

WRL - Wireless Research Lab | Faculty of Engineering, Helwan University, Cairo, Egypt

Research Developer

Sep 2021 - Aug 2022

- Created and developed an easy-to-use e-learning materials authoring tool for LMS-like (Learning Management System) using **OOP**, Angular, Angular Material, Typescript, CkEditor and more.
- Created a model to store these materials in what is known as Learning Object (or LO).
- Led the front-end team, divided the tasks between us and organized the work plan for the development.

Angular

Typescript

JavaScript

HTML/CSS

Projects

Awb

Free and Open Source Android App to quit digital addiction

Oct 2022 - Jun 2023

- Created a [prototype](#) of the app and then gathered a team and begun working on the real app.
- Facilitated Scrum meetings, delegated tasks, led and mentored the team from requirement gathering phase (writing [SRS](#)) through design and analysis phase (drawing [CRC cards](#), [ERD](#), [DFD](#), [Use Case Diagram](#), [Class Diagram](#), [Sequence Diagram](#) and [Wireframes](#)) to [implementation and documentation](#) of the first milestone and submit it as a capstone project in *Software Engineering Course*.
- Developed many classes and pair-programmed another in pretty all packages.

Object-Oriented Design

Software Engineering and Development

Design Patterns

MVVM Architecture

Git/GitHub

Scrum

Leadership

Android Development

SQL

Other Skills

Linux User

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Education

Faculty of Engineering, Helwan University | Cairo, Egypt

Sep 2019 - Jan 2024

- Bachelor of Science in Electronics, Communications and Computer Engineering - Computer and Systems Engineering

Volunteer Experience

Engineering Academic Students (E.A.S) | Student Activity at Faculty of Engineering, Helwan University

Course Instructor

Oct 2019 - July 2022

- Instructor in Programming I with C++, Electronics II, and MATLAB workshops.

Resala Charity Organization

Marketing Volunteer

Jan 2023 - Feb 2023

Languages

- English**Professional working proficiency
- Arabic**Native or bilingual proficiency

INTERESTS

- Educational Technology
- Coding
- Automation
- Superuser
- Poetry
- Logic
- Philosophy
- Reading