

Asmaa Nagy

JUNIOR SOFTWARE ENGINEER · EGYPT

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Profile Summary

An innovated and self-motivated fresh-graduate SW engineer with 3+ years of combined experience in summer internships, freelancing, part-time jobs, boot camps, and university projects. Translating business and functional specifications into clean code solutions with the best QoS. Reliable team player and constantly updating technical and personal skills. Searching mostly for: (SW development, Mobile App development, AI Python development, or Network Programming) positions.

Projects

<https://github.com/AsmaaJAH>

Education

Faculty of Engineering

Alexandria University

Bachelor of Engineering

JUNE 2024

- **Grades:** GPA: 4, Penultimate semester GPA: 3.78, Last Two Years Avg GPA: 3.55, CGPA: 3.1
- **Major:** Communications and Electronics
- **Minor and Sub-Minor:** Computer Software Engineering
- **Courses:** Network, Digital and wireless communications, Embedded systems using C programming, SW python development, Data structure and Algorithms, Database, Operating systems, AI search algorithms and Machine Learning
- **Graduation Project:** Smart Safety Helmet Mobile App as a user interface associated with IOT modules, Microcontroller(ESP32 with built-in WiFi/Bluetooth), with real-time notifications and sensors to monitor, detect, and help workers in emergency scenarios. I was the leader of the SW sub-team. We used: Flutter cross-platform, dart language, Firebase real-time database, Firestore collections, several tools/packages e.g.:(sqlite, shared preferences, launcher icons, sliders/animations, Flutter phone direct caller, Google Maps APIs and sign-in,..., etc).

Skills

Fundamentals	OOP, Data Structures and Algorithms, Design patterns, SOLID principles, OS, Database, Web Security Basics.
Languages	Dart, C/C++, SQL, Python, Java, HTML/CSS, UML, DML, ERD, MATLAB.
Platforms	Flutter cross-platform, mySQL DBMS, Firebase/Firestore Platform, Agile project management tool (Jira).
Libraries	Flutter Packages(shared preferences, sqflite, http, animation,...etc), OpenCV, Matplotlib, Scikit Learn, PyTorch, NumPy, Keras.
SW Tools	Git (GitHub, Bitbucket), Eclipse, PyCharm, Colab, Visual Studio Code, Android Studio, WordPress, Slack, AutoCad.
GUI Tools	Figma, PhotoShop CS6, Qt Designer.
HW Tools	Arduino, PCB designing using: Altium, Proteus.
Simulation Tools	Cisco Packet Tracer, WireShark analyzer, Multisim, Modelsim, LabVIEW.
Miscellaneous	Linux(Ubuntu using Oracle VM VirtualBox), Shells (cmd, PowerShell), LaTeX (Overleaf), Microsoft Office and Master ICDL.
Soft Skills	Problem-solving, Prioritizing, Creativity, Presentation skills, Straightforwardness.

Experience

Inova LLC - Mobile and Web Development Corporation

Alexandria EG, UAE, KSA

SW Engineering Intern

July 2023 - Oct 2023

- Frontend using Flutter/Dart Android and IOS mobile apps, State management using (provider & Riverpod) packages, data-flow controllers.
- Backend using Firebase, Firestore, and Postman RESTful APIs.
- Integration teamwork brings together project managers, UX/UI designers, backend developers, and Flutter team through virtual and on-site meetings.
- **Technical Skills:** Meet tasks deadlines using Native features, Flutter packages e.g.:(http, image picker,uuid, dio, ...etc), and common platforms, like: Firebase, Bitbucket, Figma, Postman, Jira as an Agile project management tool, and Slack.Including CI/CD maintenance, localization, dark mode, app environments:(development, staging, production), and introducing flavors.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

AIT Systems Corporation for web design, cloud hosting, and development services.

Alexandria EG

SW Engineering Intern

Aug 2022 - Sep 2022

- Web development, security, visual design, and mobile app in the SPS smart parking system project.
- Coordinating with AASTMT, ITIDA, and Alex Uni. using: (Flutter WebView, MySQL, PHP, Laravel, WordPress, CCtalk protocol, MQTT protocol, Node-RED) in the SW part and (AWS clouding servers, PV cells, Raspberry Pi, and coin and cash acceptors, additional larger display Screen) in the HW part.

The Sparks Foundation

Remotely, India and Singapore

GRIP(Graduate Rotational Internship Program)

Feb 2022 - April 2022

- Python codes to collect, analyze data, Build & tune models.Colab ML Classification, and AI Search Algorithms.

AMOC "Alexandria Mineral Oils Corporate"

IT and Network intern

- Two Weeks intern at the SW and Network Department.

Egypt

Sep 2021

The main Alexandrian Central of WE company.

Academic Visit

- Monitored and Troubleshooted for Networks and Servers.

Alexandria, Egypt

Jan 2020

"TARGET" For Importing and Exporting Electronic Devices.

Repairing and Maintenance Trainee

- Responsibility for the HW and SW Repairing and Maintenance of the imported electronics devices.

Egypt

2019

Etisalat office "the Arab Group".

Technical Trainee

- Responsibility for the office system administration.

Egypt

2018

PHD-17 Team2, A Plus association.

A trainee and main Researcher

- The "BCI and EMG using EEG technique" review paper. Our team won first place in this student activity.

FOE, Egypt

2017

Zewail City for Science and Technology.

Full Scholarship To study STEM As Foundation Courses

- Won 4th place in ZCSF fair and conference, 2015, in the category of College students' scientific proposals, although I was still in secondary school.

6th October, Cairo EG

2015 - 2016

YESBU/LYM In Bibliotheca Alexandrina

Electric Training For The Robotics Team

- SW and HW preparation for the ROV submarine team.

Egypt

2014 - 2015

The Arab Academy for Science, Technology and Maritime Transport (AASTMT)

Six weeks Of C++ Language Training

- Prepared for the ACM and IOI (International Olympiad in Informatics for secondary school students).

Egypt

2014

Work History

Technical Help Desk support

Al Nasr Company: 2017 - 2018

Secretary responsible for : market research, Excel data analysis, technical help desk, and product advertisements.

Junior Remote Translator

Freelancer: 2018 - 2019

Remotely translated written Arabic Islamic books into English to help African Muslims in "Direct Aid Organization".

Volunteering & Extra-Activities

- A member of IEEE Solid-State Circuits Society Alex Students' Chapter, Machine learning team, 2020 - 2023.
- A software and AI trainee at Torpedo technical team in FOE, Alex Uni in 2021.
- Participated in AI and ML summer sessions (offered by: CSE department, Faculty of Engineering, Alex.Uni.)
- Certificated after finishing the tasks of the Machine Learning course offered by Stanford University.
- A Participant in PCB sessions at Alex Engineers Syndicate.
- An E-Web school session participant (EWeb student chapter), a volunteer at Resala org (2013-2021), & Naqaa Nanotechnology member (2014).
- Participated in ICNLP presentation skills sessions including using (Photoshop CS6) and (Filmora Video Editing).
- A researcher in the "Science Geeks" project in "Bibliotheca Alexandrina" for the scientific theater in 2015.
- An active participant in YESBU in "Bibliotheca Alexandrina" and the LYM from 2014 until the end of 2015.
- Teaching "Quran and the biographies of Sahabah", creating innovative educational games for the junior.
- **Initiatives:** founder of the "Change Lives" association aimed at better education by sharing jobs and scholarships.

Languages

Arabic	Native
English	Professional Proficiency (510 in ITP TOEFL).
German	Intermediate Mid.
French	Elementary Proficiency

References are available upon request.