Mostafa Abdelaziz

Computer and Systems Engineer

✉ Toronto, Canada
Willing to relocate if needed

☎ +1 778-788-0657

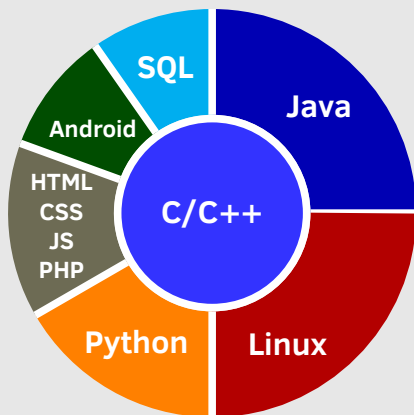@ iocoder@aol.com

🌐 https://iocoder.github.io

in linkedin.com/in/mabdelaz

About me

Computer software engineer with wide technical expertise in software engineering, computer networks, database systems, computer architecture, and embedded systems.

Technologies

OS

GNU/Linux	★★★★★
FreeBSD	★★★★☆
Windows	★★★★☆

Languages

English (*Very Fluent*)

IELTS: 7.5 — CLB: 8

Arabic (*Native*)

Italian (*Beginner*)

Education

2011 - 2016	**B.Sc., Computer and Systems Engineering**	Alexandria University

WES Evaluation: Completed on March 2nd, 2018.
GPA: 3.94.
Overall Ranking: 1st.
Graduation Project: FPGA computer based on MIPS architecture.

2008 - 2011	**High School**	Mubarak Secondary School

Overall Grade: 407.5/410 (99.36%).
Specialization: Mathematics.

Highlights

- Confident, friendly, very polite, and always smiling when dealing with customers and co-workers.
- Excellent interpersonal and communication skills in **English**.
- Great ability to learn new technologies quickly.
- Advanced technical writing skills in LaTeX (this résumé is an example).
- Extensive knowledge of the foundations of Computer Science.

Experience

2017	**Research Assistant**	Simon Fraser University

Implementation of an LTE base station using *Ettus B210 USRP* and *OpenAirInterface*.

2016	**Software Engineer**	Ejada Systems Ltd.

Providing enterprise solutions to banks in the Middle East, including:
1. Implementation of **CRM** systems using **Oracle Siebel**.
2. Developing **BigData** solutions using **Hadoop** and **Scala**.

2015	**RA Intern**	SmartCI Research Center

Programming the storage system of a cognitive radio cloud, which consisted of Linux nodes with ext2fs, using IP multicast and filesystem-aware data compression.

Selected Projects

- Expanada: Financial management application in **Python** and **SQL**.
- XMLCurses: **Python library** for programming libcurses applications using XML.
- Liftroid: Visualized elevator **Android** interface with AVR.
- Quafios: An Operating System for x86 and MIPS. The system included:
  - Implementation of a UNIX-like system call interface.
  - Device drivers for PCI, USB, ATA, timers, interrupt controller, keyboard controller, and other hardware components.
  - Dynamic kernel-space and user-space memory allocation algorithms.
  - Implementation for C library routines.
  - A GUI, with a programmer-friendly API.
- **Compiler** for a subset of **C** and **Java** Programming Languages
- Systema: Educational system-level **programming language and compiler**.
- CDP: **Linux kernel driver** implementation for a reliable Data Transfer Protocol.
- Designed a **Linux kernel device driver** and synchronization assignment for OS course at Alexandria University.
- Technical Report on Unified Extensible Firmware Interface.
- Relational **Database** Management System in **Java**.
- Educational Program with Animated Agent for Disabled Children in **VB.NET**.

Selected Awards

2017	CSED Golden Armor for the **Top Student** of 2015-2016 Class.
2017	Prof. Naeem Abou Taleb Award for **Top Student**.
2012 - 2016	**Certificate of Excellence**, Alexandria University.