Ahmed Hamdy
Software Engineer

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EDUCATION

Bsc. Computer and Communications Engineering   `Sep 2013- Jul 2018`

Alexandria University

> The program mainly focuses on Computer Science with courses on Algorithms, Data Structures, Operating Systems and so on. With some courses on hardware architecture and an embedded systems course.

WORK EXPERIENCE

Research Assistant   `Jun 2017 - Present`

IoT & Cyber security Lab, Faculty of Engineering

> Researching controller security in Software Defined Networks.

Software Engineer   `2015 - 2016`

TMentors, Internship

> Designed and implemented a complete software system to control a tel-operated advertisement robot, using C# and WPF technologies.

SKILLS

Kotlin, Python, Java, C, Rust, git, Arduino, Network Programming, NodeJs, C#

PUBLICATIONS

Repoxy: Replication Proxy for Trustworthy SDN Controller Operation - IEEE TrustCom 2018

> The 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications view

PROJECTS

All Projects are hosted on Github @/shakram02. You can find my small automation gadgets also.

- N Puzzle [Kotlin] N-Puzzle solver with a friendly GUI. Implements A*, BFS and DFS

- Arslanino [Kotlin/Firmata/Sockets] Transfer Arduino input signals to Arduino over network.

- Lwa [Android + NodeJs + Arduino] Smart home lock using OneTimePasswords (OTP)

- Ed Grid [Android / Kotlin] Make education fun by projecting Multiple choice questions on real world.

- Availability App [Angular2] Role distribution for IEEE Members for event management Demo.

COMMUNITY ACTIVITIES & VOLUNTARY WORK

- Computer Science and Robotics educator for mid/high school students at Protons - Python, Arduino

- Software Committee Member, IEEE AlexSB.

- Volunteer instructor for C and Arduino courses, IEEE—AlexSB

- Microsoft Student Partner 2015 – 2016

- AIESEC member, Incoming global volunteer (IGV) committe; Project organization

- AIESEC Exchange Participant, Children education project in Pontianak, Indonesia