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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

Security and Resilience for Network Traffics through Nature-Inspired Approaches - NCSR 2018

PROJECTS

All Projects are hosted on [Github @/shakram02](#).

- [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 Indonesia [6 weeks]