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EDUCATION

Bsc. Computer and Communications Engineering

Sep 2013- Jul 2018

Alexandria University

TOEFL iBT Score: 106

October, 2018

EXPERIENCE

Research Assistant

Jun 2017 - Present

IoT & Cyber security Lab, Faculty of Engineering

Researching controller security in Software Defined Networks.

Software Engineer

October 2015 - August 2016

TMentors, Internship

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

SKILLS

PROGRAMMING (JAVA, PYTHON, C, RUST, ANDROID), GIT, ARDUINO, SOCKET PROGRAMMING, NODEJS

PUBLICATIONS

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

Supervisor: *Mohamed Azab*

Paper

The 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications [view](#)

PI Floor: Portable Interactive Floor with High Resilience and Minimal Setup for Edutainment

Supervisor: *Shaimaa Lazem*

Poster

The 17th International Conference on Mobile and Ubiquitous Multimedia

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
- [Lwa](#) [Android + NodeJs + Arduino] Smart home lock using OneTimePasswords (OTP)
- [Pi Floor](#) [Android / Kotlin] Make education fun by projecting Multiple choice questions on real world.
- [Repoxy](#) [Java / SDN] Software Defined Network (SDN) server to allow multiple controllers to manage switches

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) committee; Project organization
- AIESEC Exchange Participant, Children education project in Pontianak, Indonesia