Ahmed Hamdy
Software Engineer

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GitHub @/shakram02 — Hackster @/shakram02 — LinkedIn @/shakram02.

EDUCATION

Bsc. Computer and Communications Engineering   Sep 2012- 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/C++, Android, Rust, Git, Arduino, Linux, Network Programming, NodeJs, Latex, C# and MCS8051

PUBLICATIONS

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

Security enhancement for Software Defined Networks using a controller replication proxy

PROJECTS

All Projects are hosted on Github @/shakram02.

- 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]