Ahmed Hamdy Mahmoud

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GitHub @/shakram02 — Hackster @/shakram02 — stackoverflow @/shakram02

Education

Bsc. Computer and Communications Engineering   Sep 2013 - Jul 2018
Alexandria University
TOEFL iBT   October, 2018
Score:106

Experience

Software Engineer   November, 2018
BADRIT

   Team member in Graphmented — Using ARKit and SceneKit to make augmented reailty graphs

Intern Software Engineer   October 2015 - August 2016
TMentors

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

Publications

Repoxy: Replication Proxy for Trustworthy SDN Controller Operation (Aug, 2018)
Supervisor: *Mohamed Azab, PhD*   *Paper*

   The 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE TrustCom-2018) view

PI Floor: Portable Interactive Floor with High Resilience and Minimal Setup for Edutainment
Supervisor: *Shaimaa Lazem, PhD*   *Poster*

   The 17th International Conference on Mobile and Ubiquitous Multimedia (MUM 2018) view

Projects

- Repoxy [OpenFlow, Low level socket I/O, OF Packet Fabrication] The first Software Defined Network (SDN) proxy to allow multiple controllers to manage OpenFlow switches

- Pi Floor [Android, Client/Server, Web Sockets] Interactive floor application availing educational games in classroom setup.

- Arduino Controller [Arduino, Java, Client/Server] (Proprietary) This application Reads and Updates states of multiple Arduino devices in the same LAN to be used in an industrial setting.

- N Puzzle [AI Course — Kotlin] (College Project) N-Puzzle solver with a friendly GUI. Implements A*, BFS and DFS

- Lwa [Android, NodeJs, Arduino] A Clone of Amazon lock. That combines mobile, web and Arduino platforms.

- Availability App [Angular2, UI Design] Working with software committee members, this software facilitates task distribution in IEEE AlexSB when managing student events. Demo.

Extracurricular Activities

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

- Microsoft Student Partner 2015 – 2016

- Software Committee member and course instructor (C, Arduino), IEEE Alexandria student branch

- Computer Science and Robotics educator for mid/high school students at Protons for 3 times.

- I blog about electronics for hobbyists on Hackster.io. Making sure to deliver byte sized concepts in details so it's easy to follow.

- Student volunteer at the 17th International Conference on Mobile and Ubiquitous Multimedia MUM18