

Ahmed Hamdy Mahmoud

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Education

Bsc. Computer and Communications Engineering

Alexandria University

Sep 2013 - Jul 2018

TOEFL iBT

Score:106

October, 2018

Experience

Software Engineer

BADRIT

November, 2018

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

Intern Software Engineer

TMentors

October 2015 - August 2016

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 on IEEE Xplore](#)

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 on ACM DL](#)

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