

Salah Eddin Alshaal

Researcher and Software Engineer

contact

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Languages

English: Full
Professional Proficiency
Arabic: Native
Proficiency
German: Elementary
Proficiency

Programming Languages

C#, SQL, Java,
JavaScript, C++, Swift
Python, PHP
& VB.NET

Professional Technologies

Git, ASP.NET, .NET
Core, Android,
TypeScript, WPF, WCF,
UWP, SQL Server,
MySQL, MV*, iOS,
MongoDB & UML

Used Technologies

VueJS, Azure and Ruby
on Rails & TFS

Education

- 2016–2017 **Msc** in Computer Science UCLan Cyprus
In-depth focus on distributed computing and User Interface, Thesis explores the use of Neural Networks and deep learning role in generating UI
- 2012–2016 **BSc Honours** in Computing - Games Development UCLan Cyprus
Highest Graduation Grade in school of Computing. Studied various topics such as Graphics, DirectX, Mobile, Design and databases. Thesis explored the concept of a unified platform for communicating with multiple wearable devices such as Microsoft Band 2 and Apple Watch.

Publications

- MDM 2016 **Augmenting Virtual Reality Environments with Smart Wearable Devices** IEEE, Lisbon
First Author this was my Bachelor's thesis which demonstrated one unifying framework suitably generic to support all future wearable devices.
- ACPROSS 2017 **Improving QoE via context prediction: A case study of using WiFi radiomaps to predict network disconnection** Submitted, l'aquila
Co-Author The paper utilises indoor positioning system techniques to match context patterns leading to losing connection.
- 2017 **A Client-Server based Platform for Improving Student Attendance using Gamification**
MSc thesis, Cyprus
Acknowledgement Aided in the build and run of an experiment aiming to increase the engagement of university students through gamification mechanics.

Awards

- 2013 - 2016 **Academic Excellence Award** School of Science, The University of Central Lancashire
Awarded throughout my Bachelor studies for achieving the highest grade in my school every year.
- 2014 - 2015 **Internship Ambassador Award** IAESTE
Awarded for being selected as Cyprus representative in Austria, and for being re-selected by the same company, Ranorex, the following year.
- 2014, 2015 **Certificate of Appreciation for Voluntary work** The University of Central Lancashire
Awarded for participation in voluntary activities at the university.
- 2013 **Space Apps Challenge (2nd place)** NASA
Built a web application to visualise energy sources data in an attempt to promote investment in renewable energy.
- 2015, 2016 **Microsoft Hackathon (2nd place)** Microsoft
Developed a Machine-Learning-based recommender system.
- 2013 - 2016 **Hack Cyprus Participation Certificate** Enterprise Link

Experience

Projects

- | | | |
|-------------|---|-----------------|
| 2015–Now | PharmaTrack
Full Stack Developer
Built a three-layered management systems to manage Cyprus pharmaceutical data, the project included: <ul style="list-style-type: none">• Converting transformation libraries into unified data models.• Implementation of dynamic reversible mapping technique to accommodate error recovery• Creating a modern responsive interface using latest design heuristics | Nicosia, Cyprus |
| 2016 | Aristotle Mobile Apps
Android and iOS developer
The apps consumed the universities' available API to allow rich functionality for students and staff such as checking class schedule, viewing gamification badges and rooms availability. This project enabled familiarity with libraries of other developers through package managers. | Pyla, Cyprus |
| 2016 - 2017 | Empathy Story Apps
Android developer
The app was designed during ongoing research investigating how technology affects children's empathy. The developed app included a story loader, where new stories could be added through a JSON model. Used Git to collaborate with team members on developing the app. | Pyla, Cyprus |
| 2016 | Stock Control System
.NET Developer
The Project included modifying a legacy software written in Visual Basic to work with new settings and additional requirements. | Pyla, Cyprus |

Full Time

- | | | |
|------------|--|---------------|
| 9/2015–Now | InSPIRE Center
Software Engineer/Researcher
Responsibilities were split between development and research, main development products were: <ul style="list-style-type: none">• UCLan Cyprus mobile android and iOS apps• Technical management of industrial projects (developed mainly in ASP.NET)• Developed multiple projects involving state-of-the-art technologies such as wearable devices [Apple Watch, Android and MS Band 2], and VR headsets [Oculus Rift] | Pyla, Cyprus |
| 6–8/2015 | Ranorex
Summer Intern/ Typescript Developer
Worked with other developers on a web-based project. The project required researching available MV* frameworks available for JavaScript. The project used TypeScript. It also involved setting up servers to host the project and ensuring their robustness i.e. sharding and supporting replica sets. | Graz, Austria |
| 6–8/2014 | Ranorex
Summer Intern/ .NET developer
Provided a survey of available open-source OCR engines for the .NET platform; the survey software generated random images with text presented to participating libraries to test their accuracy under controlled settings. | Graz, Austria |

Part Time

2015- 2017	UCLan Cyprus Lab Assistant Assisted in the lab sessions of three modules offered at the University of Central Lancashire, and aimed at 2 nd -year students; responsibilities required: <ul style="list-style-type: none">• Good communication skills with fellow computer scientists.• Explaining Basic Programming concepts to other students [in Java/C++].• Explaining Games-Development concepts to other students [in C++].	Larnaka, Cyprus
July 2013	WebToDesigns Summer Intern Worked on web front-end; Bootstrap, PHP and CMS [Concrete 5].	Larnaka, Cyprus

Key Skills

Agile Development Using SCRUM prepared me to work in fast-paced environments with key skills such as prioritising requirements, iteration and quality assurance.

Programming Familiarity Worked through multiple perspectives with information such as Object-Oriented Modelling (C#), Functional programming (F#), Relational Query Model (SQL), Procedural (BASIC) and Document-based Models of data (MongoDB).

Creativity and Team Work Gained by specializing in games development and working with designers to come up with unique solutions as well as training junior developers and students at InSPIRE lab. Furthermore, entering Hackathon competitions enhanced my teamwork skills and productivity under limited amount of time.

Community and Communication

Capable communicator, with skills further developed by working in multiple countries and multi-cultural settings which have enabled me to take feedback positively.

2017	Software Developers Training Trained the IT department of the university on how Aristotle system is built and how to extend and maintain it. I have trained other teams of students in the UK and Cyprus as well.	UCLan Cyprus
2015- 2016	Microsoft Student Partner Partnership offered to aspiring students with interest in technologies and sharing knowledge with peers.	Microsoft
2014	Leadership Certificate Awarded upon the completion of the leadership programme. Mastered the pillars of successful leadership for personal development.	The University of Central Lancashire

Interests

professional: Research and Innovative technologies **personal:** Travelling, Running and completing my Bucket List.