

Salah Eddin Alshaal

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Education

- **University of Central Lancashire** Larnaka, Cyprus
Masters in Computing Sep. 2016 - Aug. 2017
 - Offered a full scholarship from the university.
 - Senior Thesis: Personalising Data Visualisation based on the user cognitive abilities.
- **University of Central Lancashire** Larnaka, Cyprus
Bachelor of Computing with Honours Sep. 2012 - June. 2016
 - Highest Graduation Grade in the school of Computing. (**86%**)
 - Senior Thesis: Multi-platform Wearable's Gesture Recognition in Virtual Reality Environment.

Work Experience

- **InSPIRE Centre** Pyla, Cyprus
Junior Software Developer and Researcher September 2015 - Present
 - Part of a team developing Software and Databases.
 - Responsibilities include maintaining legacy systems and training undergraduate students on different technologies e.g. Version Control, Microsoft Stack
 - Responsibilities also include Communicating with business partners to establish connections and develop full systems.
- **SIMPS** Remote work, New Zealand
Software Developer August 2017 - Present
 - Part of a team developing website back-end and REST APIs.
 - Responsibilities include migrating old software architecture to new backend that accommodates for the new requirements
- **University of Central Lancashire** Larnaka, Cyprus
Teaching Assistant 2015 - 2017
 - Modules Taught: Games Concepts [2nd year students], Algorithms and Data Structure and Introduction to Programming [1st year students].
- **Ranorex** Graz, Austria
Summer Intern June 2015 - Aug 2015
 - First Reserved Internship offer in Cyprus.
 - Responsible included researching available MV* frameworks available for JavaScript.
 - Used TypeScript and NoSQL Database MongoDB and set-up sharding servers.
- **Ranorex** Graz, Austria
Summer Intern 2014
 - Produced a survey of available open-source Optical Character Recognition (OCR) engines for the .NET platform.
 - Built a benchmarking software to compare OCR libraries (auto generated images with text in them).
- **WebToDesigns** Larnaka, Cyprus
Summer Intern 2013
 - Gained professional experience in front-end development i.e. Bootstrap, PHP and CMS Concrete 5

Projects

- **PharmaTrack, Sinopsis** Niocisa, Cyprus
Technical Manager and Lead Software Engineer September 2015 - Present
 - Built three-layered management system independently to **manage Cyprus pharmaceutical data** and project sales of the country using statistical models.
 - Built transformation libraries to unify data from multiple source e.g. Excel files from different pharmacies into structured information in **SQL Server**
 - Designed **back-end API** to be consumed by JS/JQuery and WCF Services to be used by ASP.NET.
- **SIMPS Payment System, SIMPS** New Zealand
Lead Software Engineer August 2017 - Present
 - Used Python Django to build the back-end base **manage employees and clients' payments and taxes** .
 - Built generic generator for client's reports and invoices.
 - Designed **back-end API** to be consumed by **Android/iOS** applications.
- **Aristotle Mobile Apps, InSPIRE** Larnaka, Cyprus
Android and iOS Developer Aug. 2016 - Nov. 2016
 - Paid-project by the university to build the university apps for students to **gamify student experience**, receive badges and notifications as well as checking classes timetable and attendance
 - Used Cocoapods and Gradles to incorporate tested libraries into the apps e.g. Alamofire, Retrofit, GSON.
- **Empathy Story Apps** Larnaka, Cyprus
Android Developer 2016
 - The developed app included a story loader, where new stories could be added through JSON models.
 - Used Git and Kanban to collaborate with team members.

Publications

- "**Augmenting Virtual Reality Environments with Smart Wearable Devices**", *Proceedings from the Conference on Mobile Data Management* in Porto, Portugal, 2016.
- "**Improving QoE via context prediction: Using WiFi radiomaps to predict network disconnection**", contributing author. *Proceedings from ACPROSS* in L'aquilla, Italy, 2017.
- "**A Client-Server based Platform for Improving Student Attendance using Gamification**", Acknowledgement.

Awards

Academic Excellence Award <i>Awarded to highest grade achiever in School of Science</i>	2013 - 2016 <i>University of Central Lancashire</i>
Internship Ambassador Award <i>First internship reserved offer to Cyprus</i>	2015 <i>IAESTE</i>
Certificate of Appreciation for Voluntary work <i>Volunteering activities at the university</i>	2014 - 2015 <i>University of Central Lancashire</i>
NASA Space Apps Challenge <i>2nd place on the National level</i>	2013 <i>NASA</i>
Microsoft Hackathon <i>2nd place on the National level</i>	2014, 2015 <i>Microsoft</i>
Hack Cyprus <i>Annual participation</i>	2013 - 2016 <i>Enterprise Link</i>

Skills

Languages :

- English: Full Professional Proficiency.
- Arabic: Native Proficiency.
- German: Elementary Proficiency.
- Dutch: Elementary Proficiency.

Programming Languages :

- C#, JavaScript, Swift, Python, Java, C++
- SQL [SQL Server, MySQL], NoSQL [MongoDB]
- TypeScript, VB.NET, Zsh.

Professional Technologies :

- ASP.NET, WPF, WCF, UWP
- Python Django, Android, iOS, Unity3D, VR, Azure
- MV* frameworks, Git, Slack, Markdown and UML
- Chutzpah and MS Testing Framework

Used Technologies :

- VueJS, F#, Ruby on Rails, Spring and TFS

Agile Development: Used SCRUM and eXtreme Programming (XP) in fast paced environment with focus on prioritising features and quality assurance.

Miscellaneous :

- Ability to learn new concepts fast and independently.
- Great Communication and Management skills through teaching undergraduates and researchers about different technologies.
- Precise but extensible databases architecture design.

Community and Communication

2017 Trained the IT department to use Aristotle system, and trained the UK team to use my thesis project.

2015–2016 Microsoft Student Partner.

2014 Team Leadership Certificate

Interests

Professional: Research and using cutting-edge technologies.

Personal: Travelling, Running and completing my Bucket List.