

Mohammad Hassan Dawi

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SUMMARY

Technology professional with expertise in automation testing, mobile app development, and software engineering. Proficient in Selenium, Java, Objective-C and Swift, with strong background in CI/CD pipelines and quality assurance including Jenkins and GitHub. Holds a master's degree in electrical and computer engineering and committed to innovation and quality in software solutions.

PROFESSIONAL EXPERIENCE

Company Name: Intellect (Swan Pro) 2021– 2025.

Position: QA Automation Engineer, full-time

Job Description:

- Develop Automated UI test scripts for QMS software using Selenium, Java and VB.Net.
- Increased test coverage by 65%.
- Deployed these tests to Jenkins server and GitHub workflow.
- Utilized Dot Cover for code coverage analysis.
- Conducted API tests using Rest Assured.
- **Tools:** Jenkins, GitHub, Visual Studio, Selenium, Java, Jira, Dot Cover.

Institute Name: American University of Beirut Mar,2019– Mar,2022.

Position: Software Lab Instructor, part-time.

Job Description:

 Lab instructor for courses

- EECE 231(*Introduction to Programming Using Python and MATLAB*).
- EECE 230(*Introduction to Computation and Programming Using Python*).
- EECE 330(*Data Structures and Algorithms Using C++*).
- Teaching Problem solving techniques and practices
- **Tools:** MATLAB, C++, Python.

Institute Name: Lebanese American University 2023– 2023.

Position: Java Lab Instructor, part-time.

Job Description:

 Java Lab Instructor for course

- COE211 (*Introduction to Programming and Data Structures Using Java*)
- **Tools:** Eclipse, Java.

Company Name: *Proximie 2019 – 2020.*

Position: Senior iOS developer, part-time.

Job Description:

- Maintain, develop, fix bugs.
- Write UI tests for the native iOS app. Including login and basic navigation.
- **Tools:** Swift, XCTest, Jira, GitHub.

Company Name: *Bluering 2016 – 2017.*

Position: Application developer, full time.

Job Description:

- Implemented Support and Sovereign overlays for the application.
- Bug fixing and information sharing, and communication with QA team
- **Tools:** Oracle Forms and reports, SQL, Jira.

Company Name: *Research and Innovation Center (BRIC), Sep,2015 – May,2016.*

Position: Researcher, full time.

Job Description:

- Second author in 2 of the publications mentioned below.
- Researching AI techniques for enhancing the demining process such as SOM, kernel k-means and image processing.
- **Tools:** MATLAB, CILK++, OpenCV, OpenMP.

Company Name: *Khatib & Alami, Consolidated Engineering Company, 2010 – 2011.*

Position: Software application developer, full time.

Job Description:

- Developed an iOS app called Tourism Navigator with map navigation, search and directions features with support for Arabic and English.
- Implemented an AddIn for GIS ESRI ArcCatalog.
- **Tools:** Visual Studio, VB.net, xml, ARCGIS server, SQL Express.

PROJECTS

A. HOOKLINE

Project Description: Built an iOS app using ARKit, enabling the user to add, manipulate and capture 3D objects in real time.

Tools: Swift, ARKit.

B. *FCropalette*

Project Description: Designed and created an iOS app that provides an easy, fast, and precise free hand cropping tool for photos. Cropped part can be pasted, rotated and merged with another photo.

Tools: Objective-C, OpenCV.

C. *KPI VIEWER*

Project Description: Worked on an iOS app that shows multiple Key Performance Indicators (KPIs) for real time data of oil wells (temperature, pressure etc.). Cells in the grid are clickable and show data ranges in the form of charts.

Used: Objective-C, Json, wcf.

EDUCATION

- Masters, Electrical and Computer Engineering, 2009 – 2013.
American University of Beirut, Beirut, Lebanon.
- Bachelor, Computer Engineering, 2002 – 2007.
Beirut Arab University, Beirut, Lebanon.

PUBLICATIONS

1. *3D face recognition using stereo images*

Mediterranean Electrotechnical Conference (MELECON), 2014 17th IEEE, April 16, 2014.

This work focuses on extracting 3D or depth information using stereo matching for the purpose of enhancing face recognition. We present a new fast stereo matching algorithm termed Cluster Search (CS) for depth map calculation.

2. *Parallel Kernel K-Means on the CPU and the GPU*

The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), January 1, 2016.

This work targets Kernel K-Means and presents parallel implementations of the clustering algorithm using CUDA on the GPU and OpenMP, Cilk-Plus and BLAS on the CPU.

3. *Enhanced parallel implementation of the K-Means clustering algorithm*

2016 3rd International Conference on Advances in Computational Tools for Engineering Applications (ACTEA), July 15, 2016.

This work discusses an enhanced parallel implementation of K-Means clustering algorithm using Cilk Plus and OpenMP on the CPU and CUDA on the GPU.

PROFESSIONAL SKILLS

- **Programming Languages:** Java, Swift, Objective-C, C++, VB-C#.Net, Python, MATLAB, Kotlin.
- **Databases:** MySQL, MS SQL Server 2022, Oracle 11g.
- **Tools:** Visual Studio, Xcode, Eclipse, Anaconda, JetBrains (DotCover, Rider), Oracle Forms/Reports.
- **CI/CD:** Selenium, Jenkins, BrowserStack, GitHub, DotCover.
- **Platforms:** Windows, macOS, Linux, Windows server 2019.

MICROSOFT CERTIFICATIONS

1. Developing and Implementing Web Applications with Microsoft ®Visual Basic® .NET and Microsoft® Visual Studio® .NET
2. Managing and maintaining a Microsoft Windows Server 2003 Environment.
3. Implementing, Managing, and Maintaining a Microsoft Windows Server2003 Network Infrastructure: Network Services.
4. Managing and maintaining a Microsoft Windows Server 2003 Environment.
5. Planning and maintaining a Microsoft Windows Server 2003 Network Infrastructure.
6. Installing, Configuring, and Administering Microsoft Windows XP Professional.