Imad Hadi Hasan

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PROFESSIONAL SUMMARY

Full Stack Software Developer with over 9 years of experience and with a demonstrated history of working in the higher education industry, Software development, Hardware integration, ERP systems, and Business Solution systems. Skilled in Web Development, Database Design, Information Analysis, MVC Architecture, and Mobile Applications. Strong engineering professional with an MSc Degree focused in Software Engineering and Software Testing from Salahaddin University-Erbil.

WORK EXPERIENCE

Full Stack Software Developer   Aug 2019 - Present

Gigant Technology • Irbil, Iraq

- Consulted with clients to develop and documented application requirements.
- Assisted in requirements analysis, High Level Design, Low Level Design, and complex code development for 10+ business applications.
- Developed Web Application architecture and optimized large MySQL database using indices that increased performance by +20% and faster page loads for a large ERP system code base.
- Integrated various Hardware and Medical devices with the ERP systems in C# and RESTAPI.
- Analyzed and developed 8+ new modules and 50+ new features for the ERP system including front-end (HTML, CSS, Bootstrap and Javascript & Ajax) and back-end (PHP & MySQL).
- Conducted tests and perform security and quality controls.

Software Engineer & Instructor   Sep 2013 - Present

Salahaddin University-Erbil • Irbil, Iraq

As Instructior:
- Taught Web Design, Web Programming, and Web Development subjects in different courses.

As Software Engineer:
- Collected users' requirements, and developed logical and physical specifications.
- Developed main website for the University that resulted 60% better SEO optimization.
- Implemented and developed 5 responsive web sites and web application using Drupal CMS and Other PHP Frameworks for internal University's services and for 15 colleges.
- Worked closely with the UX team to optimize JavaScript and PHP codes, improving latency and user journey.
- Developed Drupal CMS Theme/modules for new functionality.
- Plan, design and coordinated the development, installation, integration, and operation of computer-based systems including mobile applications.
- Training staff and support existing sites including data migration and server management and configurations.
- Followed industry best practices, and learned 3 new technologies.

EDUCATION

MSc. Software engineering   Feb 2017 - Jan 2020

Salahaddin University-Erbil • Irbil, Iraq

Relevant coursework: Computer Vision and Advanced Image Processing, Computer Science, Information Systems Modeling and Analysis, Pattern Recognition and Machine Learning, Advanced Algorithm Design, Information Security, Software Testing and QA, Research Methodology.

Master Thesis Research: Software Testing, Test case generation, Optimization and Combinatorial Interaction Testing.

BSc. Software Engineering   Oct 2009 - Jul 2013

Salahaddin University-Erbil • Irbil, Iraq

Relevant coursework: Java Programming, OOP, Data Structures, Software Engineering, SQL Database design, Advanced Database, Web Programming, Engineering Analysis, Data Communication, Image Processing, Computer Graphics, Digital Control Systems, Data mining & Data Warehouse and Computer Networks.

SKILLS

Programming Languages:
- PHP l Javascript l Typescript l C# l Java l Python l C++ l SQL

Backend Frameworks & CMS:
- Node.js & Express.Js l Laravel l .Net core l Symfony l Java Spring Boot l Drupal 8

Frontend & Front-end Frameworks:
- Bootstrap l Material l Tailwind CSS l UI/UX l CSS3 l HTML5 l Javascript l jQuery l Vue.js l React.js l Angular l Ionic Framework l React Native l CSS l SCSS l Responsive Design

Data Storage:
- MySQL l MSSQL l Oracle l MongoDB l RDBMS l NoSQL l Caching

Software Engineering:
- Software Development & Design l SDLC l Software Architecture l OOP l Microservice l MVC l MVVM l MVP lORM l Windows Presentation Foundation (WPF) l Git l Software Testing l Unit Testing l Selenium Web Testing l REST API l XML l JSON l Ajax l Authentication & Authorization l Web Application l Mobile Application l Full Stack.

Development Stack & Deployment:
- Linux l LAMP l MERN l MEVN l .Net l JVM l Docker l Virtual Machines l Cloud

PROJECTS

1. **Cobas c311 & e411 analyzer Integrator**
   Date: 2021 to Present – Gigant Technology
   Technology: ASTM Protocol, .Net/C# to Laboratory Information System (LIS)

2. **Swelab CBC Hematology analyzer Integrator**
   Date: 2021 to Present – Gigant Technology
   Technology: HL7 Protocol, .Net/C# to Laboratory Information System (LIS)

3. **Kurdish Text to speech (KTTS) Module for NVDA (Screen Reader)**
   KTTS: First Kurdish language synthesizer model trained based on a deep learning technology built by Gigant Technology Team.
   Date: 2021 to Present – Gigant Technology
   Technology: Python, C/C++ Integration to a trained model

4. **Developing & Improving Gigant ERP Systems**
   Modules: HR, Accounting, Finance, attendance, Inventory Management System, POS, Sale & Purchase, Hospital Information System (HIS), Laboratory Information System (LIS), Radiology Information System (RIS) and etc.
   Date: 2019 to Present – Gigant Technology
   Technology: PHP, Javascript, jQuery, Bootstrap, LAMP Stack

5. **Alumni Profiles of Salahaddin University-Erbil**
   Date: 2019 to Present – Salahaddin University-Erbil
   Technology: PHP, Javascript, jQuery, Bootstrap, LAMP Stack
   Link: http://alumni.su.edu.krd

6. **Academic Staff Portfolio of Salahaddin University-Erbil**
   Date: 2018, to Present – Salahaddin University-Erbil
   Technology: PHP, Javascript, jQuery, Bootstrap, LAMP Stack
   Link: http://academics.su.edu.krd

7. **Student Exam Results of Salahaddin University-Erbil**
   Date: 2018 to Present – Salahaddin University-Erbil
   Technology: PHP, Javascript, jQuery, Bootstrap, LAMP Stack
   Link: http://result.su.edu.krd

8. **Main Website of Salahaddin University-Erbil**
   Date: Developed in 2017 to Present
   Technology: Drupal, Symfony, PHP, Javascript, jQuery, Bootstrap, LAMP
   Link: http://su.edu.krd

PUBLICATIONS

1. **Improved Mixed Neighborhood Tabu Search by Random Selection for Combinatorial Interaction Testing**

   Date: January 2020
   Publisher: ZANCO Journal of Pure and Applied Sciences
   Link: http://dx.doi.org/10.21271/ZJPAS.32.5.1

2. **Generation and Application of Constrained Interaction Test Suites Using Base Forbidden Tuples with Mixed Neighborhood Tabu Search**

   Date: September 2019
   Publisher: International Journal of Software Engineering and Knowledge Engineering
   Link: https://doi.org/10.1142/S0218194020500151

TEACHING

1. **Web Development**
   Institution: College of Engineering, Salahuddin University-Erbil
   Semester: Fall (2021-2022)
   Topics: Full Stack Technologies, Nodejs, NoSQL Databases, and React.js

2. **Web Programming**
   Institution: College of Engineering, Salahuddin University-Erbil
   Semester: Spring (2020-2021), Spring (2021-2022)
   Topics: Full Stack Technologies, Javascript & DOM, PHP, MySQL

3. **Web Design**
   Institution: College of Engineering, Salahuddin University-Erbil
   Semester: Fall (2020-2021)
   Topics: Frontend Technologies, HTML5, CSS3, Javascript, Bootstrap

LANGUAGES

- **English:** Professional
- **Arabic:** Intermediate
- **Kurdish:** Native