Hasan Khaled Al-Bzoor

Entrepreneur, Senior Tech-Lead, and AI

LinkedIn Profile | iCode Website

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BIO

IT solutions expert and Software Architect with 15+ years of expertise in high-impact projects. As a Lecturer, Entrepreneur, and Software Architect, I align IT strategy with organizational goals, delivering innovative solutions in full-stack development, cloud architecture, AI-RAG, and cybersecurity. My achievements include developing scalable platforms, from AI-driven chatbots and secure examination with auto-grading of many programing languages to secure video conferencing, web accessibility, QR attendance system, and data management systems. With a foundation in performance, optimization, and cybersecurity, I design architectures that enhance reliability and efficiency. Known for collaborative leadership, I guide cross-functional teams in complex cloud, security, and AI projects, bringing the right mix of technical expertise and strategic insight to be an invaluable asset to any organization.

SKILLS

Communications	Python, C++, C#, JS, R
Project Management	Linux & Win Servers
Problem Solving	AI RAG, NLP, LangChain
IT Business	Linux, VMware, Docker
Strategic Planning	ReactJS, MVC, EF, SQL
Documentation	ASP.Net Core 8.0
Statistical Analysis	Mobile Apps (React)
Critical Thinking	UX & UI design
Decision Maker	Nginx, NFS, GlusterFS
Systems Analyst	PHP, WP, Moodle

WORK EXPERIENCE

JUST
Jordan University of Science and Technology.
IT Expert and Lecturer
College of IT, University Vice Rector, Deanship of Quality Assurance and Academic Development, e-Learning Center
Irbid, Jordan
Sep 2021 – Now

Entrepreneur, Senior Tech-Lead, and AI

- Developed **iGPT**, AI-powered chat platform utilizing RAG, FIAS vector space, OpenAI's LLM API and LLama3.
- Developed **iCode**, platform of seamless exam management and intelligent coding evaluation and assessment for many programming langs.
- Developed **iWAT**, JavaScript tool with Python API, enabling customized user experience and web accessibility for disabled users.
- Developed **iMeet**, secure video conferencing platform with interactive tools, and seamless integration for local networks.
- Developed **iQRA**, a QR attendance system, enabled real-time tracking, automatic code refresh, and distance validation.
- Developed i**QSM**, to streamline QS World Rankings data submission, with automated data checks for improved ranking accuracy.
- Trainer in Linux server management & Tuning.
- Lecturer for several courses at IT College.
- Students mentor in AI & software engineering.

University of Hail
IT Expert and Lecturer
University Vice Rector for Academic Development and Community Service, Deanship of Information and Technology, Information and Statistics Center, Cybersecurity Center, Hail Virtual Training
Hail, Saudi Arabia
Sep 2009 – Sep 2019

IT Manager, Cybersecurity & Software Architect

- Manager and founder of Information and Statistics Center.
- IT Manager of Hail Virtual Training Academy.
- Led Cybersecurity team, conducting regular penetration testing, vulnerability scanning, and security policy development.
- As IT Manager, implemented large-scale IT projects supporting Vision 2030 initiatives.
- Actively participated in high-level university committees, focusing on development, IT, and quality assurance.
- IT director and developer of several platforms at deanship of quality and development.
- Linux and windows servers' administration.
- Innovator and full-stack developer.
- Teaching several courses in IT & Math.

KSU
King Saud University
Science College
Riyadh, Saudi Arabia
Sep 2007 – Sep 2009

Lecturer

- Taught courses in visual programming, mathematics, and statistical analysis.
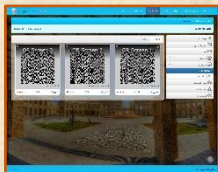- Course management, assessment and reviewing textbook and curricula.

RECENT PROJECTS

iCode Exam

iGPT

QR Attendance

iMeet

Web Accessibilities

E-Councils

Training

Virtual Training

Statistics Center

Community MSGs

AWARDS

NOV 2024 — **Cyber Threat Intelligence Analyst** 96/100 in PGI Cyber Academy's

APR 2019 — **Deanship of Scientific Research** Certificate of appreciations

FEB 2018 — **Vice Rector of Development** Certificate of appreciations

JUN 2017 — **Deanship of IT** Certificate of appreciations

MAY 2012 — **Datamatix - Dubai** Best electronic initiative prize

LANGUAGES

Arabic (Native)   **English (Fluent)**

EDUCATION

Master's degree
Applied Mathematics
Jordan, Sep 2005 – Feb 2007

● **Jordan University of Science and Technology**
Thesis: *Modified algorithm for solving linear partial differential equations using Taylor polynomial.*

Bachelor's degree
Applied Mathematics
Jordan, Sep 1998 – Feb 2002

● **Jordan University of Science and Technology**
Project: *Software for solving differential equations using extrapolation algorithm.*

PUBLICATIONS

1. H. Al-Bzoor, M. Al-Towaiq, "*Taylor Expansion Method for the Solution of Second Order Linear PDE's*", Applied Numerical Modeling Journal. (2007)

2. H. Al-Bzoor, M. Al-Towaiq, "*An efficient algorithm for the solution of second order PDE's using Taylor expansion polynomials*". Journal of Discrete Mathematical Sciences and Cryptography, Volume 14, Issue 1, 9-31 (2011). MSC2000: *65N99 35-99

3. A. Tabieh, H. Al-Bzoor, "*The effect of designed instruction according to the mathematical skills using Blackboard in the developing performance and cognitive achievement in mathematics among preparatory students at Hail University*". Education Journal - Al-Azhar University (2016), 169(3), 449-470.

4. M. Othman, H. Al-Bzoor, "*Quantitative variables which improve the results of the Preparatory Year students by developing a computer software designed to measure and improve students' abilities based on education technology and self-evaluation*". Arab Journal of Quality and Excellence. Volume 4, Issue 1, (2017).

5. B. Lahcene, H. Al-Bzoor, "*Follow the Best Practices for Input of College OF Engineering in Mathematics and English Through the Preparatory Year Deanship for Improving Academic Level of Students in University of Hail*". Journal of Studies in Education Sciences, University of Algiers. Volume 1, Issue 2, (2017). ISSN: 2543-3741.

Technical SKILLS

1. **Programming Languages:** Python, R, C++, C#, Assembly, JavaScript, PHP, SQL, HTLM5, CSS3, React.

2. **AI & Machine Learning:** Generative AI, OpenAI, Llama, RAG, NLP, TensorFlow, LangChain, data analytics and visualization, data structures and algorithms.

3. **Software Engineering:** Full-stack development (React, ASP.NET Core), Python Flask, RESTful APIs, PHP, JavaScript, Linux & Windows Servers.

4. **Cloud & Infrastructure:** Apache, Nginx, Bash Script, distributed file systems, OS management, virtualization (VMware, Docker).

5. **Cybersecurity:** Vulnerability scanning, threat intelligence analyst, penetration testing, secure system architecture, secure code reviews.

6. **Linux Server and Virtualization Management:** Skilled in managing Ubuntu Linux OS, with experience in VMware ESXi and server automation using shell scripts.

7. **High Availability and Storage Solutions:** Proficient in high-availability setups with GlusterFS and NFS, load balancing, auto-mounting, and logical volume management, ensuring reliable database replication and storage solutions.

REFERENCES

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