Karam Abu Judom

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EXPERIENCE

Databases Laboratory Instructor, Budapest University of Technology and Economics   **09/2024 - Present**
- Mentoring **20+** BSc students by addressing technical questions, evaluating entry tests, and providing instruction on SQL, Oracle Database, query performance analysis, normalization principles, transaction isolation levels, and physical data organization.

Software Engineer Intern, ProgressSoft   **08/2024 - 09/2024**
- Developed and maintained Java-based web applications using **Spring** and **Spring Boot** while contributing to daily scrum meetings.
- Worked with **Git/GitLab** in an Agile environment to manage multiple branches, resolve merge conflicts, and run automated tests.

Software Developer Intern, Cairo Amman Bank   **06/2024 - 08/2024**
- Developed webpages using HTML/CSS/JavaScript and assisted in building middleware services utilized by government partners.
- Assisted the Infrastructure team with managing and optimizing databases and server clusters of **400+** virtual machines.
- Collaborated with a Senior DBA from an **Oracle Certified Solution Provider** on database administration tasks.

EDUCATION

BSc Computer Science Engineering, Budapest University of Technology and Economics (BME)   **09/2022 - 01/2026**
- Stipendium Hungaricum scholarship recipient (acceptance rate of 10%); current GPA of **4.51/5.**
- Research focus: Machine Learning for Anomaly Detection (preparing for BSc thesis).

Student Leadership & Community Involvement:
- **Tech Team Head** of Google Developer Student Club BME, led a team of 5 developers to produce 3 technical projects.
- **IT Lead & Management Board Member** of TEDxBME, a university-wide event fully organized by students.
- **International Mentor** in the National Union of Students in Hungary, helping integrate 2300+ students from 50+ countries.
- **Event Lead** of BME Sollertia, organized and managed events with an average attendance of 100+ participants.

PROJECTS

AI Stock Sentiment Analyzer
- Building a cloud-based serverless architecture using **AWS Lambda** and **API Gateway** for scalable and cost-effective analysis.
- Integrating **Reddit, Twitter,** and **Yahoo Finance APIs**, leveraging **NLTK** for preprocessing and filtering financial discussions.
- Utilizing **FinBERT, Hugging Face Transformers,** and **Streamlit** to classify stock sentiment as bullish, bearish, or neutral.

Cliq Payment Transactions Web App
- Developed a simulated financial transaction system with a frontend in Angular/TypeScript and a backend in Java, Kotlin, and Spring
- Implemented backend logic with **JDBC, Hibernate (HQL)**, and the **Repository Pattern**, deploying **PostgreSQL** in a Docker container.
- Programmed secure **CRUD** endpoints and integrated **JWT**-based authentication for role-based access control.

Full-stack Portfolio Website
- Built a responsive frontend using **Angular, TypeScript, HTML/CSS, Bootstrap** and a backend using **Node.js** and **Express.**
- Designed and integrated a **MongoDB**-based blog system to handle dynamic, schema-less blog entries with full CRUD functionality.
- Exposed **RESTful API** endpoints and used Nginx as a reverse proxy for secure and scalable request routing.

Automated Certificate Issuance System, Project Lead
- Created a Python tool to automate certificate creation for students attending university events, cutting processing time by over **90%.**
- Built a Tkinter GUI, processed data with **Pandas**, and used **Google API & OAuth** to generate and export certificates to Google Drive.

GDSCommander, Project Lead
- Python bot developed by researching **Discord** and **OpenTDB APIs** and utilizing **GitHub Projects** for streamlined management.
- Facilitated community interaction for **120+** GDSC club members with **15+** commands, including trivia and event information.

SKILLS

Programming Languages: Proficient in Python, Java, C# | Experience with JavaScript/TypeScript, Bash, Kotlin, C, C++

Databases: SQL, MSSQL, PostgreSQL, Oracle Database, MongoDB, .NET Entity Framework | Experience with T-SQL, JDBC

Technologies: Docker, AWS, Linux Shell, GitLab CI/CD, Jenkins, HTML5, CSS3, Bootstrap, Maven, Gradle, Version Control Systems (Git/GitHub), REST API, GraphQL, OpenAPI, Swagger, Postman, ASP.NET Web API, OpenCV, PowerBI

Soft Skills: Project Management, Multicultural Teamwork, Leadership, Problem-Solving, Critical Thinking

CERTIFICATES

AWS Certified Cloud Practitioner – Amazon Web Services (AWS)	**Introduction to IoT** – Cisco
Artificial Intelligence Fundamentals – IBM	**IELTS (8.0) –** British Council
Data Fundamentals – IBM	**MATLAB Onramp** – MathWorks