Karam Abu Judom

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EXPERIENCE

Databases Laboratory Instructor, Budapest University of Technology and Economics (BME) **09/2024 - Present**

- Mentoring **20** Bachelor's students during lab sessions by answering technical questions, encouraging critical thinking, evaluating entry tests, and guiding students in the effective use of **Oracle Database** and **SQL.**

Software Engineer Intern, ProgressSoft **08/2024 - 09/2024**

- Collaborated on developing Java-based web applications, attending daily scrum meetings and applying clean code principles.
- 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**

- Assisted the Software Development team in building middleware services utilized by government partners.
- Collaborated with the Infrastructure team to manage and optimize server clusters of **400+** virtual machines.

Tech Team Head, Google Developer Student Club BME **05/2023 - 06/2024**

- Drove GDSC BME's growth with research and administrative support, enhancing club operations with **20+** core team members.
- Led a team of **5** tech members to develop **2** projects and create educational content and blogs for GDSCBME's social media pages.

Student Mentor, National Union of Students in Hungary **08/2023 - Present**

- Playing a key role in integrating a diverse international student body, encompassing **2300+** students from **50** different countries.

EDUCATION

BSc Computer Science Engineering, Budapest University of Technology and Economics (BME) **09/2022 - 01/2026**

- Current GPA: **4.51/5.**
- Received the Stipendium Hungaricum full scholarship award, with an acceptance rate of **10%**.
- Member of **BME Sollertia**, a student club serving as a bridge between international and Hungarian students.

PROJECTS

Full-stack Portfolio Website

- Used **Angular**, **TypeScript**, and **Angular Material** to develop a responsive frontend.
- Implemented a backend **RESTful API** with **Node.js, Express,** and **MongoDB,** and configured **Nginx** as a reverse proxy.

Cliq Payment Transactions Web App

- Developed a web application simulating payment transactions using **Angular, TypeScript, HTML,** and **CSS** for the frontend.
- Constructed a backend using **Java, Kotlin**, and **Spring Boot**, implementing JWT-based authentication for secure user access.
- Integrated **PostgreSQL** database within a **Docker** container using **JDBC**, leveraging **Hibernate ORM** and **HQL.**

Expense Tracker (Java)

- A comprehensive swing-based GUI program created using the **MVC design pattern** to help users track their expenses.
- Implemented a real-time currency conversion feature supporting more than **30** currencies by integrating external financial **APIs.**
- Applied test-driven development using **JUnit** and **Mockito**, and utilized **Maven** for dependency management and build automation.

GDSCommander (Python), Project Lead

- Discord 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.

Certificate Generator (Python), Project Lead

- Python-based **Tkinter** GUI application to automate the creation of personalized certificates for GDSC event participants.
- Used **Pandas, Pillow, Google API,** and **Google OAuth** for image processing and secure automated upload to Google Drive.

SKILLS

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

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

Technologies: Docker, AWS, GitLab CI/CD, Jenkins, REST API, GraphQL, Version Control Systems (Git/GitHub), HTML5, CSS3

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