Karam Abu Judom

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EXPERIENCE

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

- 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 Developer Intern   **08/2024 (4 weeks)**
ProgressSoft

- 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.

Tech Intern   **06/2024 - 08/2024**
Cairo Amman Bank (CAB)

- 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   **05/2023 - 06/2024**
Google Developer Student Club BME

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

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

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: Java, Python, C#, SQL, JavaScript/TypeScript, Kotlin

Technologies: Docker, GitLab CI/CD, REST API, Version Control Systems, .NET, TDD, HTML, CSS, UML, psql

Soft Skills: Project Management, Multicultural Teamwork, Leadership, Problem-solving, English Proficiency (IELTS 8.0)

EDUCATION

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

- 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.