

# 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 Engineer 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.

**Software Developer 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.

## 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.

## 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.

### GDSCCommander (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 Java, Python, C# | Familiar with JavaScript/TypeScript, Kotlin

**Databases:** Proficient in SQL, T-SQL, Oracle Database, MSSQL | Familiar with JDBC, MongoDB, PostgreSQL

**Technologies:** Docker, AWS, GitLab CI/CD, REST API, Version Control Systems (Git/GitHub), HTML, CSS

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