

Jad Arab

Beirut, Lebanon Jadarab2005@gmail.com +961 76767283 <https://www.linkedin.com/in/jad-arab-609b252bb/>

Education

Lebanese American University, BS in Computer Science

2023 – 2026

- **Relevant Coursework:** Algorithms And Data Structures, Intro to OOP, Database Management Systems, Operating Systems, Software Engineering, Android Mobile Development.

Projects

KubeKeeper: Docker Containers Monitor

- Implemented real-time Docker resource tracking using **Docker Engine API**, tracking CPU, memory, and I/O usage.
- Built a CLI interface with multi-container monitoring, log filtering, and error diagnosis features.
- Open-sourced on GitHub: <https://github.com/JadArab/Kubekeeper>
- Tools Used: Docker SDK, JSON, Docker Engine.

Go Static Asset Server

- Built a single-binary Go web server using **//go:embed** to embed and serve HTML, CSS, and JavaScript assets.
- Implemented basic HTTP routing, cache-control headers, and a development mode that falls back to disk files.
- Packaged as a standalone executable for zero-dependency deployment.
- Tools Used: Go, net/http, embed.

Python Streaming Analytics Service

- Developed a real-time analytics backend using **FastAPI** WebSockets and **asyncio** streams to ingest and broadcast event metrics.
- Implemented sliding-window computations for key metrics and background tasks for aggregation.
- Demonstrated back-pressure and timeout handling with context deadlines; optional integration with Celery for persistent aggregation jobs.
- Packaged in Docker for easy deployment.

Technical Skills

Languages: C++, C, Python, Golang, Java, SQL, JavaScript, Bash, Excel, Tableau, OpenCV.

Technologies: React.js, Django, Firebase, MySQL, Node.js, Express.js, Git.

Personal Skills And Interests

Languages: Arabic - Native, English - Proficient.

Interests: Machine Learning, Mobile App Development, Web Security, Low-Level Programming, Automation Tools.