OMAR HAMMOUD

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`https://omar-hammoud.vercel.app`

EDUCATION

Swiss Federal Institute of Technology (ETH Zürich)   *Zurich, Switzerland*
Master of Science in Computer Science, Data Management   *Sep. 2024 - Expected Aug. 2026*

Swiss Federal Institute of Technology Lausanne (EPFL)   *Lausanne, Switzerland*
Bachelor of Science in Computer Science   *Sep. 2021 - Aug. 2024*

- **Relevant Courses:** Algorithms, Big Data, Data Management Systems, Software Engineering, Cloud Computing Architecture, Network Security, System Security, Applied Cryptography, High Performance Computing, Multiprocessor Architecture, Machine Learning

EXPERIENCE

- **Teaching Assistant - ETH Zurich** – [ZURICH, SWITZERLAND]   *Feb. 2025 - Present*
Supported students in the Databases course by preparing materials and guiding exercises. Assisted employees in the Software Engineering course through lab sessions and office hours.

- **Web Developer - Htech** – [BEIRUT, LEBANON]   *Jul. 2024 - Oct. 2024*
Started as an intern, then worked as a remote developer. Contributed to client projects from initial development to final delivery, leveraging React frontend and .NET backend

- **Teaching Assistant - EPFL** – [LAUSANNE, SWITZERLAND]   *Sep. 2023 - Jun. 2024*
Assisted students in the Computer Architecture and Digital Systems courses by clarifying complex concepts, guiding lab sessions, and helping them solve exercises.

PROJECTS

- **FeedMe:** [KOTLIN] Collaborated with six teammates to develop a mobile app that enables users to find, share, and create recipes. The app utilizes Google Firebase for backend data management. Our team ranked 2nd out of 18 competitors.

- **EventLoupe:** [TYPESCRIPT, PYTHON] Built a web app designed to increase student event attendance by centralizing event information, highlighting friends' participation, and providing event recommendations via a custom algorithm. The project placed 6th out of 27 teams at VIScon Hackathon 2025. Technologies used include React, FastAPI, and SQLite.

- **LikingNodes:** [JAVASCRIPT, PYTHON] Developed an interactive web app where users can add and like nodes in live sessions. The app leverages `D3.js` for visualization and incorporates React, FastAPI, and WebSockets. It is deployed on Vercel, Railway, and Neon.

- **JobsOnCloud:** Evaluated static and dynamic schedulers for memcached and PARSEC workloads hosted on Google Cloud. Optimized batch job completion while meeting tail latency SLOs.

SKILLS

- **Programming Languages:**
- *Proficient in:* Java, C, Python, SQL, JavaScript
- *Familiar with:* Go, C++, Scala, Kotlin, C#, TypeScript, Assembly, Verilog, HTML, CSS

- **Technologies:** Git, Docker, Kubernetes, CI/CD, React, FastAPI, Android Development, Google Cloud, PySpark, JSONiq, CUDA, Dynamic Programming

- **Hobbies:** Ski, Running, Golf, Gym, Tennis, Biking, Swimming

- **Languages:** Fluent in French, English and Arabic (native). Learning German