

Mohamad Ali Hassan Rida

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Date of Birth: 28 October 2004 | **Nationality:** Lebanese

Professional Profile

Computer Science student with practical experience in backend development, full-stack applications, and algorithm optimization. Developed production REST APIs using Python Flask as a freelance developer and built OOP-based applications in Java. Strong foundation in data structures and problem-solving through USAL academics and 42 Beirut's intensive peer-learning curriculum. Passionate about writing clean code and eager to contribute technical skills to challenging projects in a collaborative environment.

Education

Bachelor of Science in Computer Science
University of Sciences and Arts in Lebanon (USAL)

October 2022 – May 2026

42 Beirut Core Curriculum
Intensive hands-on training: C programming, Python, algorithms, Git, peer learning

October 2025 – January 2027

Experience

Freelance Backend Web Developer – Lebanon

November 2024 – December 2024

- Designed and implemented RESTful APIs using Python Flask
- Ensured performance and quality of applications
- Wrote clean, efficient, and reusable Python code
- Created and maintained software documentation

Database Support Assistant – Municipality of Ghobeiry, Beirut, Lebanon

December 2024 – January 2025

- Identified and reported a critical system bug causing database disconnection
 - Entered and updated data accurately in databases
 - Organized and prioritized tasks to meet deadlines
 - Communicated effectively with team members
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Projects

- **Pentagon Game** – AI-powered tactic board game with computer opponent using minimax algorithm (PyGame, NumPy)
 - **Real Estate Website** – Full-stack rental platform with listings, search & authentication (Flask, MySQL, HTML/CSS/JS)
 - **Rent a Car application** – .NET MVC web application with booking management and inventory tracking (C#, SQL Server)
 - **Clinic Management System** – Developed Java desktop application with Swing GUI implementing OOP best practices (encapsulation, inheritance, abstraction and polymorphism)
 - **Push Swap** – Developed efficient sorting algorithms in C with adaptive strategy selection, achieving $O(n \log n)$ performance and <700 operations for 100 elements.
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Trainings & Workshops

- **42 Beirut piscine (terminal, git and C language), September - October 2025**
 - **Git: Become an Expert in 4hr - Udemy, 2025**
 - **.Net MVC full course (Ongoing) – Udemy, 2026**
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Leadership & Activities

- **President, Binary Brains Club – USAL, 2025 – Present**
Organizing technical workshops and coding events for 200+ computer science students
 - **Scout Member – Lebanese Scouts, 2017 – Present**
7+ years of active participation developing leadership, teamwork, and problem-solving skills
 - **INTERESTS:** Chess, Trail running & hiking, Algorithmic challenges
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Skills

- **Languages: Arabic (Native), English (Fluent), French (Fluent)**
- **Programming Languages:**
 - Python – REST API development, full stack web applications, data processing | NumPy, Pandas, PyGame, OOP
 - Java – Algorithms, Core OOP principles, Swing GUI | Encapsulation, inheritance, polymorphism, abstraction
 - C – Algorithms & optimization, manual memory management, pointer manipulation, leak-free code.
 - SQL – Database design, complex queries (joins, subqueries, transactions) | MySQL, PostgreSQL, SQLite
 - C# – .NET MVC web development, backend application logic | ASP.NET Core
- **Tools & Platforms:**
 - Proficient in Git and GitHub (version controls) - Advanced
 - Experienced in Bash scripting - Advanced
 - Comfortable working in Linux and Windows environments
 - Familiar with Jira and Trello (Project Management & Agile tools)