



Asaad Rasul

Backend Software Engineer

Contact

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📍 Vienna, Austria

Links

🔗 [sn0wqt](#)

🌐 [asaad-f-rasul](#)

🌐 [sn0wqt.github.io](#)

Skills

Languages: Java, TypeScript, JavaScript, Python

Backend: Spring Boot, Spring Framework, Node.js, Express.js, NestJS

APIs & Communication: REST APIs, gRPC, Protocol Buffers, WebSockets

Data & Persistence: PostgreSQL, MySQL, MongoDB, SQLite, Redis, Hibernate/JPA, Sequelize

Cloud & DevOps: Docker, Linux/Unix, Git/GitHub, GitHub Actions, CI/CD, AWS EC2/S3/IAM, Google Cloud APIs

Languages

Kurdish - Native

English - Fluent

Arabic - Fluent

German - A2

Certificates

Harvard CS50P - Python

Harvard CS50x - Computer Science

Interests

- Backend API architecture
- Distributed systems
- Cloud-native tooling
- Security and reverse engineering

Summary

Backend developer and Software Engineering M.Sc. student at TU Wien with production experience building backends for mobile and web applications, including **App Store** and **Google Play** products. Focused on **Java** and **Spring Boot** backend development, with practical experience in **TypeScript/Node.js**, **REST APIs**, **SQL databases**, **Redis**, **WebSockets**, and **Python** automation. Emphasis on clean API design, reliable data persistence, and maintainable Spring-based services.

Experience

Architech Iraq

Sulaymaniyah, Iraq

BACKEND ENGINEER

Feb 2024 - Sep 2024

- Designed and developed backend services for production mobile and web applications, including REST APIs, real-time features, and database-backed business logic.
- Implemented real-time application behavior using WebSockets and Redis, improving responsiveness for user-facing workflows.
- Led database architecture work, improving the efficiency, scalability, and security of application data storage.
- Collaborated with frontend/mobile teams to integrate API endpoints and troubleshoot production-facing application behavior.

IQ Group

Sulaymaniyah, Iraq

HR & DEVELOPMENT INTERN

Jul 2023 - Sep 2023

- Automated internal workflows with Python, reducing processing time by 30%.
- Used Google Cloud APIs for data scraping, analysis, and business information verification.
- Coordinated intern project milestones and helped keep deliverables on schedule.

Projects

Architech Iraq

Sulaymaniyah, Iraq

ARCHIMENUS

🍏 [APP STORE](#)

- Developed the backend for a restaurant menu management system with real-time updates and scalable APIs supporting thousands of users.
- Built using **TypeScript**, **Node.js**, **Express**, **MySQL**, **Sequelize**, and **Redis**.

FRUJ FRESH MOBILE APPLICATION

🍏 [APP STORE](#) 🤖 [GOOGLE PLAY](#)

- Designed and implemented the backend for a mobile app connecting users to fresh produce markets, featuring real-time order processing and optimized database queries.
- Built with **TypeScript**, **Node.js**, **Express**, **MySQL**, **Sequelize**, and **Redis**.

ARCHIESTATE

📸 [INSTAGRAM PORTFOLIO](#)

- Developed a full-stack real estate management system to streamline property management processes.
- Built using **MongoDB**, **Express**, **React**, **Node.js**, and **Tailwind**.

Personal Projects

PRIVACYFREAK BOT (TELEGRAM BOT)

🔗 [GITHUB](#)

- Developed a Telegram bot that extracts and removes metadata from images and media files.
- Built with **Java**, **Maven**, **Telegram Bot API**, and **Apache Commons Imaging**.

Education

Technische Universität Wien (TU Wien)

Vienna, Austria

M.SC. IN SOFTWARE ENGINEERING

Mar 2026 - Present

- Focus on the architecture of scalable, distributed systems and high-performance computing.
- Advanced study of data management, formal verification, and secure software operations.

American University of Iraq, Sulaimani (AUIS)

Sulaymaniyah, Iraq

B.SC. IN SOFTWARE ENGINEERING

Sep 2019 - Jun 2024

- Focused on requirements engineering, architectural design, software construction, and testing.
- Awarded President's Honor Award for a 3.82 GPA in the final semester (CGPA: 3.16/4.0).