Tamara Ghosn

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Junior Java Backend Developer focused on building secure and scalable backend systems with Spring Boot, REST APIs, and PostgreSQL. Skilled in layered architecture, authentication (JWT, RBAC), and relational database design. Developed multiple backend projects, including a banking system simulating real-world transactions and a modular e-commerce backend for a master's thesis. Self-motivated learner with multi stack exposure (React, .NET, Flutter) currently deepening expertise in testing (JUnit, Mockito) and backend design principles

Skills _____

- **Backend**: Java | Spring Boot | Spring Data JPA | Spring Security | Hibernate | REST | JWT
- **Frontend**: React.js | HTML | CSS | Bootstrap | MUI | Javascript | Flutter for Mobile Development
- **Database:** PostgreSQL | MySQL | Schema Design
- **Testing (learning)**: Junit5 | Mockito
- **Dev Tools**: Git | GitHub | Postman | Maven | Npm | OpenAI | Prompt Engineering | Docker
- **Automation:** Building AI agents and AI-powered automation workflows with n8n and make.com
- English, Arabic, French – *All professional proficiency*

Experience _____

Java Developer (Spring Boot)	**Freelance**	*Remote, Lebanon*	**07/2025 - present**

- Building and refining Spring Boot applications that handle real backend workflows such as user management, authentication, and transaction tracking.
- Implemented JWT authentication and role-based access control**,** gaining hands-on experience with secure session handling and API protection.
- Designed and optimized PostgreSQL and MySQL schemas using JPA/Hibernate, focusing on clean entity relationships and query efficiency.
- Exploring how to structure scalable backend architectures**,** write unit tests with JUnit**,** and prepare applications for deployment.
- Every project is documented on GitHub with setup guides and API documentation to track technical growth and share progress publicly.

Software Engineer Intern	**Suppy**	*Remote, Lebanon*	**01/2025 - 02/2025**

- Developed RESTful APIs in ASP.NET Core, contributing to the backend of a production system.
- Delivered and maintained dynamic, component-based features using Vue.js, enhancing user interaction and overall user experience.

Frontend Developer Intern	**Creoshift**	*Zahle, Lebanon*	**09/2023 – 02/2024**

- Delivered 20+ features/bug fixes merged into the codebase.
- Implemented features for a React.js HR CMS, streamlining HR processes.
- Integrated APIs with Axios, enabling real-time data updates.
- Contributed 10+ production-ready modules used in onboarding and employee management reducing onboarding process time by 30%

Flutter Developer Intern	**Lebanese University**	*Saida, Lebanon*	**04/2022 - 06/2022**

- Developed a full stack mobile app using the Flutter framework and Dart language.
- Integrated Firebase Cloud Firestore as the backend database, enabling real-time data synchronization and storage.

Projects _____

Event Ticket Manager	**10/2025 - present**

- Building a production grade event ticketing system featuring secure authentication, event creation, ticket sales, and QR code validation workflows.
- Developed 30+ REST APIs using Spring Boot applying clean layered architecture and domain driven design for structured service management.
- Integrated Keycloak authentication with JWT and role based access (Admin, Organizer, Attendee) improving security and user segmentation.
- Optimized PostgreSQL persistence with JPA/Hibernate leveraging entity relationships, cascading operations and transaction management to maintain data consistency.
- Automated data mapping with MapStruct and introduced DTO conversion layers reducing boilerplate and improving maintainability by over 40%.
- Containerized PostgresSQL and Keycloak services using Docker enabling consistent environment setup scalable testing and simplified CI/CD readiness.
- Gained hands on experience in enterprise level backend architecture, authentication bridging the gap between academic learning and production ready development.
- Github Repository: https://github.com/tamaraghosn/springboot-event-ticketing-manager

Spring Boot Banking System   **07/2025 - 10/2025**

- Designed and implemented a banking backend that simulates real financial operations such as account creation, deposits, withdrawals, and fund transfers with full transactional integrity.
- Built a JWT-secured authentication system with Spring Security, custom filters, and role-based access control for Admin and User accounts.
- Implemented real time balance updates and transaction history tracking, with all operations persisted in MySQL using JPA/Hibernate.
- Integrated email notifications (Java Mail) to confirm actions like account creation, login alerts, and transfers, improving traceability and user feedback.
- Developed PDF bank statement generation with iText and custom query filtering by account and date range.
- Github Repository: https://github.com/tamaraghosn/springboot-banking-system.

AI-Driven Email Automation (n8n)   **05/2025 - 06/2025**

- Built a smart email automation system using n8n and AI agents that connect to Gmail, process incoming emails in real time and performs automated actions such as summarizing, tagging and extracting key details.
- Integrated OpenAI's API to generate context-aware summaries and classify messages based on content or sender type
- Used dynamic routing and conditional logic in n8n to handle multiple workflows (e.g., client inquiries, invoices, notifications).
- Implemented Google Sheets logging and email reply automation ensuring transparent tracking of all processed messages.
- Github Repository: https://github.com/tamaraghosn/ai-driven-email-automation-n8n

Masters Thesis Project   **08/2024 - 01/2025**

- Conducted research on a systematic approach to integrating design patterns in early-stage software development focusing on scalability.
- Designed and implemented an e-commerce REST APIs as the case study built with Spring Boot and PostgreSQL to validate the proposed approach.
- Applied the Decorator Pattern to dynamically extend entities enabling flexible business logic for pricing, shipping and user roles.
- Evaluated how early pattern integration improved maintainability, structure clarity and future adaptability.

Education _____

Master of Science   **Lebanese University**   *Saida, Lebanon*   **2022 - 2024**

- Information Systems Engineering

Bachelor of Science   **Lebanese University**   *Saida, Lebanon*   **2019 - 2022**

- Computer and Communications Engineering