

KATIA BERBERY

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Portfolio: <https://katiaberbery-portfolio.vercel.app/>

PROFILE SUMMARY

Motivated Software Developer with hands-on experience in backend application development, API design, and scalable web applications. Proficient in Java, strong fundamentals in Object Oriented Programming OOP and experienced with SQL, REST APIs, Magnolia CMS, Python. Skilled in building robust solutions and continuously learning new technologies. Published research on machine learning for cybersecurity in IEEE SmartNet. Passionate about clean code, testing principles and contributing to software teams and innovative software solutions.

EDUCATION

Arab Open University – Lebanon

Master of Cybersecurity and Forensics, Information Technology (2021 – 2025)

- Research paper published as part of **IEEE SmartNet** on *deep learning for cyberbullying detection* — demonstrates analytical and machine learning application skills.

Bachelor of Computer Science (2010 – 2015)

TECHNICAL SKILLS

- Programming Languages: Java, HTML, CSS/Tailwind CSS, React (JS), SQL, FTL, YAML.
- Principles: OOP, API design.
- Frameworks & Tools: Git/GitHub, Magnolia CMS, Node.js, Next.js, Express, PostgreSQL, Docker.
- Data & Machine Learning: Python (ML basics), Database management.
- Development Practices: REST APIs, version control, automated builds
- Other Skills: Linux environment, Time management, Effective communication, Problem solving
- Languages: Arabic (Fluent), English (Intermediate), French (Intermediate)

RELEVANT PROJECTS EXPERIENCE

Portfolio Website (2025) <https://katiaberbery-portfolio.vercel.app/>

Technologies: React, Next.js, Tailwind CSS, JavaScript, GitHub Pages.

- Built and deployed a personal website to highlight software projects and technical skills.
- Showcased backend services, APIs and interactive frontend features.
- Focused in responsive design and clean UX.

Quiz Game App (2025 - Ongoing)

Technologies: React Native, Node.js, PostgreSQL, Socket.IO

- Designed and implemented backend services for real-time gameplay and team session logic.
- Built APIs for session control, score tracking and integrated media features.
- Focused on clean architecture, and cross-platform user experience.

HR Recruitment App (Onramp Full-Stack Program) (2025)

Technologies: Next.js, Express, PostgreSQL, Prisma, Docker.

- Built scalable backend APIs for authentication, job posting workflows, and candidate services.
- Implemented role-based access control and session security.
- Worked collaboratively using Git and documented API and workflow.

Key Achievements:

- Delivered RESTful services with clear endpoint definitions.
- Emphasized code maintainability and robust database interaction

Master's Research Paper (Published 2025, IEEE SmartNet)

- Conducted cybersecurity research focused on cyberbullying detection on social media platforms such as Twitter. [Cyberbullying Dataset Collection for an Enhanced Automatic Detection on Twitter Using Deep Learning Techniques | IEEE Conference Publication | IEEE Xplore](#)

- Published findings as part of academic contribution to smart networks.

EXPERIENCE

Solutions CTC – Magnolia Developer (July 2024 – Present)

- Developed web components and integrated backend logic ensuring high-quality, dynamic user experiences.
- Configured content models and automated workflows with YAML and FTL.
- Improved site performance and accessibility for multiple client projects.

Lebanese General Security – Data Entry (2017 – 2024)

- Managed critical databases with strict accuracy requirements.
- Collaborated across teams to optimize data integrity and operational workflows.

Metro Superstore – Assistant Manager (2009 – 2017)

- Led inventories and operations functions.
- Enhanced process efficiency and team coordination.