

Ilyes Rouibi

Swiss Citizen

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EDUCATION

Kungliga Tekniska Högskolan (KTH) <i>Exchange student in Computer Science (EPFL academic exchange)</i>	Stockholm, Sweden Aug. 2025 – Jul. 2026
École Polytechnique Fédérale de Lausanne (EPFL) <i>BSc in Computer Science (QS World #10 in Eng. & Tech.)</i>	Lausanne, Switzerland Sep. 2023 – Jul. 2026
<ul style="list-style-type: none">• Concentration: Software Engineering• Relevant Coursework: Web Development, Algorithms, Database Design, Object-Oriented Programming, Functional Programming, Computer Architecture, Artificial Intelligence, Machine Learning, Distributed Systems, Computer Security.	

EXPERIENCE

Centre de Rencontres et d'Animation <i>Youth Leader</i>	Lausanne, Switzerland Oct. 2018 – Aug. 2025
<ul style="list-style-type: none">• Engage with children and teenagers, from 6 to 17 years old, during weekly open sessions and holiday camps.• Design and facilitate recreational and educational activities tailored to group dynamics.	
Swiss Armed Forces <i>Infantryman, Squad Leader</i>	Zurich, Switzerland Jul. 2022 – Apr. 2023
<ul style="list-style-type: none">• Completed 300 days of full-time military service in demanding physical and mental conditions.• Led a squad of 4 soldiers during field exercises, managing decision-making in high-pressure environments.	

PROJECTS

Portoflio Website 🌐 <i>React, Tailwind CSS, Web Dev.</i>	Oct. 2025 – Dec. 2025
<ul style="list-style-type: none">• Designed and developed a fully responsive portfolio from scratch using React and Tailwind CSS, deployed on Vercel for continuous delivery.• Implemented modern UI/UX practices including dark mode and smooth animations.	
Document Management System 🗄 <i>Java, Docker, SQLite</i>	Aug. 2025 – Oct. 2025
<ul style="list-style-type: none">• Engineered a Dockerized database system in Java for critical hospital records by implementing and benchmarking SQLite vs. custom TSV backends.• Designed a custom serialization pipeline where the TSV format demonstrated 12x faster serialization and 38% greater space efficiency than CBOR.• Confirmed sub-2ms query performance for both storage backends after initialization.	
Distributed Key-Value Store 🗄 <i>C, Concurrency, Networking</i>	Mar. 2025 – Jun. 2025
<ul style="list-style-type: none">• Built a distributed key-value store in C inspired by Amazon Dynamo, supporting configurable quorum-based replication (N, W, R).• Validated system resilience by designing a peer-to-peer architecture with virtual nodes and engineering testing tools for failure scenarios.	
Functional Connect 4 🎮 <i>Scala, Functional Programming, Web Dev.</i>	Nov. 2024 – Dec. 2024
<ul style="list-style-type: none">• Developed a multiplayer web app in Scala, applying functional programming principles to ensure state immutability.• Enhanced user experience by implementing real-time game mechanics, turn timers, win detection and persistent score tracking.	
ChaCuN 🎮 <i>Java, JavaFX, Object-Oriented Programming</i>	Feb. 2024 – Jun. 2024
<ul style="list-style-type: none">• Replicated complex board game logic by building a multiplayer tile-based game from scratch in Java using JavaFX and advanced object-oriented programming patterns.• Optimized game flow by designing algorithms for tile placement validation, player turns and automated scoring logic.	

TECHNICAL SKILLS

Programming: Java, Scala, C, C++, Python, SQL, JavaScript, React, HTML/CSS, Tailwind CSS, Assembly
Developer Tools: Docker, Git, GitHub, Linux/Shell, Maven, Firebase, VS Code, IntelliJ, CLion, Figma
Languages: French (Native), English (Advanced), German (Intermediate), Arabic (Basic)