Rita Jaafri Hayani

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EDUCATION

Polytechnique Montréal   Montreal, QC
Bachelor's Degree in Software Engineering (3.09/4)   *Sept. 2022 – May 2027*

PERSONAL PROJECTS

Software Development Project   Jan. 2025 – May 2025
- Designed and deployed an online gaming platform with a team of 5, featuring a customizable user interface using TypeScript.
- Built a real-time server with Node.js and a MongoDB database, ensuring fast communication and scalable data persistence.
- Deployed the platform via GitLab Pages and AWS EC2, achieving a 100% uptime during testing and delivering features over 3 Agile sprints.

Intelligent Robot: Obstacle Localization on Complex Paths (C++)   Aug. 2024 – Dec. 2024
- Contributed to implementing functions for precise movement and interaction control for a mini-robot in C++.
- Developed key features such as sensor management, autonomous navigation, and inter-module communication, enhancing overall performance.
- Conducted rigorous tests to validate performance in line with project specifications.

Chess Game (Python 3)   Aug. 2023 – Dec. 2023
- Developed a complete chess game, including accurate modeling of pieces, rules, and an intuitive user interface.
- Implemented game logic by accurately translating chess rules into scripts, ensuring a realistic and engaging experience.

EXPERIENCE

Volunteer Tutor   Sept. 2024 – Present
Polytechnique Montréal   *Montreal, QC*
- Assisted students in understanding fundamental concepts in algebra, calculus, and probability.
- Created personalized exercises and provided tailored support to help students overcome specific challenges.

Consultant, CCG of Polytechnique Montréal   Sept. 2024 – Dec. 2024
Indie Montréal   *Montreal, QC*
- Designed an AI-driven innovation strategy to optimize internal processes and enhance operational efficiency.
- Collaborated with management to identify key needs, analyze challenges, and deliver actionable recommendations, resulting in the development of an innovative application that improved internal operations and user satisfaction.

Web Development Intern   June 2024 – Aug. 2024
Aria, Tenor Group   *Casablanca, Morocco*
- Developed a mobile application for order management, fully automating processes from supplier management to stock tracking.
- Designed modern, user-friendly interfaces ensuring a seamless experience across devices (desktop, tablet, mobile).
- Optimized SQL database queries, reducing response times by 20%, ensuring reliable and fast management of critical data.

SKILLS

Programming Languages: Java, C++, Python, SQL, JavaScript, TypeScript, CSS, HTML, VHDL, Assembleur, PHP.
Frameworks and Tools: React, Angular, NodeJS, Express, Bootstrap, Git, GitLab, GitHub, VS Code, Visual Studio, UML, Figma.
Operating Systems: Linux/Unix, Windows.
Methodologies: Agile, Scrum.
Databases: MongoDB, MySQL, PostgreSQL.
Languages: French, English, Arabic, Spanish (Intermediate).