Rayan Saadani Hassani

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EDUCATION

University Of Ottawa Sep 2022 – Dec 2026 (expected)

Bachelor of Applied Science in Software Engineering (COOP)

- Dean's Honour List (2023, 2024, 2025) | GPA: 8.4/10

WORK EXPERIENCE

Software Developer - University of Ottawa (Internship/Part-time) Sep 2024 – Present

- Developed a GitLab CI/CD pipeline for .NET applications, integrating automated testing and Docker containerization to streamline deployment workflows and reduce production errors.
- Configured and implemented SAML SSO on Faculty of Medicine applications, successfully transitioning authentication from legacy LDAP to Azure Entra ID across the ecosystem.
- Maintained and enhanced 10+ .NET web applications, resolving backend issues, optimizing performance, and delivering new features on schedule while ensuring 100% system availability.
- Implemented security patches across web applications to remediate vulnerabilities detected by scans (Qualys), ensuring compliance with institutional data protection standards.
- Engineered SSRS reporting solutions leveraging complex SQL Server stored procedures, providing critical analytics for student feedback and career advising while increasing reporting efficiency by 40%.

Teaching Assistant - University of Ottawa (Part-time) Jan 2025 – Present

- Mentored 100+ students across 3 undergraduate courses (Intro to Software Eng., Python, Digital Systems), reinforcing concepts in algorithms, OOP, and logic design.
- Led lab sessions and provided one-on-one support to debug code and resolve technical inquiries, while grading assignments with constructive feedback.

Data Analyst - Kruger Products (internship) Jan 2024 – May 2024

- Engineered an automated logistics management system using Power Automate, streamlining supply chain tracking and eliminating manual data entry for high-volume deliveries.
- Developed dynamic Power BI dashboards integrated with MySQL databases to visualize real-time metrics, enabling stakeholders to achieve a 20% reduction in operational delays.
- Implemented data validation protocols and optimized collaborative workflows using SharePoint and Excel for cross-functional teams.

PROJECTS

AutoApply AI Agent | *Python, Selenium, OpenAI API, SQL, NLP, LLM*

- Engineered an intelligent automation bot leveraging Generative AI and Selenium to scrape job boards and autonomously generate tailored applications, integrating human behavior simulation to bypass anti-bot detection.
- Implemented NLP-based matching algorithms to analyze semantic similarity between resumes and job descriptions, ranking opportunities to maximize interview conversion rates.

Fitness Coaching Web Application | *React, Node.js, Bootstrap, REST API*

- Engineered a full-stack platform providing personalized workout plans, developing RESTful APIs with Node.js to manage user data and implement secure authentication (JWT).
- Developed a responsive frontend using React and Bootstrap, focusing on component reusability and efficient state management to ensure a seamless user experience.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C#, HTML/CSS, TypeScript, SQL.
- **Frameworks & Libraries:** .NET Core, ASP.NET, .NET Blazor, React, Angular, NodeJS, Flask, Selenium, Pandas, PyTorch.
- **Developer Tools & Platforms:** Git, Docker, GitLab CI/CD, Linux, Azure AD (Entra ID), SQL Server, Jira (Agile/Scrum), Power BI.
- **Spoken Languages:** Bilingual (English, French)