

ROMAN HUDAJ

CS Student ~ Developer

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SUMMARY

Results-driven with a focus on data-driven application development and process optimization. Skilled in designing user-friendly applications, with a strong foundation in data handling and efficient software design.

SKILLS

Languages: Python, SQL, JavaScript, TypeScript, HTML, C++, C.

Technologies: Alteryx, SQL Server, React, Node.js, Azure DevOps, Git, Pandas, Excel.

EXPERIENCE

4/23 – 9/23

Software Product Management Intern

Environics Analytics

- Developed an automated pipeline with Alteryx and Deep-L API to parse and translate data product documents and variable lists to French, resulting in savings of tens of thousands per product.
- Created a user-friendly app with Python/QT to extract client usage data of company products from databases; provided ease of data access and analysis by non-technical teams.
- Enhanced databases to monitor client usage of products/APIs to formulate an optimized product pricing strategy and ultimately increase profitability and user satisfaction.

SQL / Alteryx / Python / Azure DevOps

1/22 – 8/22

Student Engineer

Martinrea International

- Spearheaded a major project to optimize the flow of materials across a large facility; improved system for collecting and analyzing data to plan the project; resulted in increased output and cost efficiency.
- Led cross-functional meetings to communicate project progress, timelines and outcomes to various departments and management.

SQL / Excel

PROJECTS

Python, SQL, ODBC **Database Interface App**



Created a efficient, user-friendly app to interact with a database featuring: Connection to any specified database via ODBC, dynamically generating intuitive UI for table selection and data filtering // real-time selection-based querying, efficiently handling millions of records via Pandas, optimized display algorithms and batch querying // thread and crash safe via multi-threading // custom output files.

React, JS, HTML

Notes Web-App



Developed a comprehensive note-taking web application using React, JavaScript, and HTML, integrated with MongoDB databases for efficient file storage. Researched and tested innovative features aimed at enhancing the user experience of the note-taking.

C++

Chess Game/AI



Create the game of chess, implementing a graphical interface and AI system proficient in surpassing good chess players, utilizing search algorithms. Incorporated design patterns such as visitor and decorator, alongside polymorphism, to optimize coupling and cohesion of the code.

EDUCATION

9/20 – 12/24

Computer Science, Honours

University of Waterloo

- Pursuing Specialization in Data Science.
- Awards: Presidents Scholarship of Distinction, Dean's Honours List
- Courses: Object-Oriented Software Development, Databases, User Interfaces, Algorithms, Statistics, Probability

INTERESTS

Personal

Digital Animation and Film-making, Photography

Scholarly

Hackathons (Hack the North, The GoldenHack), Math Competitions

Volunteering

UHN - Hospital Patient Support (2 years), Student Teacher (3 years)