Saif Abdelkefi

Data Engineer

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SUMMARY

- Recent McGill graduate with 3+ years of experience delivering applications and building data pipelines from concept to deployment

Specialized in Python, SQL and TypeScript. currently developing skills in scalable AI-powered solutions for automation and data processing

- Strong communicator with the ability to bridge technical and non-technical teams, translating business needs into effective engineering solutions

RELEVANT TOOLS & SKILLS

Data Engineering & Analytics: ETL/ELT, data modeling, Power BI, SQL, Python, pandas, PostgreSQL, MongoDB
Automation: Power Automate, Selenium, BeautifulSoup, n8n
Software Development: TypeScript, Node.js, Next.js, NestJS, REST APIs, Docker, GCP, Power Apps
Professional: Client communication, autonomy, ownership, intellectual curiosity, cross-team collaboration

PROFESSIONAL EXPERIENCE

Founding Engineer, Power Dime, Montreal, Canada   Jul 2025

Voluntary contribution during the startup's early phase; job currently paused pending next-stage development

- Collaborated on the strategic architecture design of data lakes and data partitioning, evaluating the ingestion and management of structured, semi-structured, and unstructured data

- Architected and implemented a document upload feature crucial for a key business process (RFP form). This solution integrated a Next.js frontend and NestJS backend API with Google Cloud Storage for file handling and PostgreSQL for metadata management

Full Stack Developer, PixMob, Montreal, Canada   May 2023 – Aug 2024

Project1 – PixMob Platform

An internal system designed to manage and track the state of PixMob's event technology ecosystem including projectors, lighting devices, firmware, avenues, staff, etc.

- Architected and deployed a scalable data and firmware management system for over 90,000 devices, integrating front-end, back-end, and real-time data polling to optimize operational processes

- Designed and validated database schemas in PostgreSQL to create a single source of truth for key operational data, including inventory, resources, and event assets, aligning with data modeling and governance best practices

- Developed and maintained a scalable RESTful API using Next.js to provide tailored access to operational data. This improved decision-making for internal teams and clients by ensuring they had timely and relevant information, directly contributing to the company's data analytics capabilities

Project2 – The Visualizer

A Web application for 3D light shows visualization according to the PixMob DMX lighting Protocol

- Designed and implemented an ETL workflow to ingest raw batch files from show operators, perform data validation and transformation, and integrate structured outputs into the visualization system
- Developed a structured data model using SQL to represent the complex lighting sequences, ensuring alignment with the PixMob DMX protocol
- Automated the entire workflow from file upload to data integration using python scripts in the backend. This optimization provided a self-service platform for show operators, enabling faster iteration and decision-making by turning raw program data into a visual output

Intern Developer, Raymond Chabot Grant Thornton, Montreal, Canada   May 2022 – Apr 2023

- Designed and developed a Power BI integrated application to streamline the management of financial statement comments, improving collaboration between CFOs and accountants
- Assisted in a product conference to present the application to potential enterprise clients and managing live Q&A, addressing technical inquiries. Successfully sold the application to two clients for $80,000+
- Created and maintained interactive dashboards and reports using Power BI, providing clients with key insights and a clear overview of their financial data

EDUCATION

Bachelor of Science, McGill University, Montreal, Canada   Sep 2020 – Dec 2024

- Major in Computer Science, minor in Mathematics
- Relevant classes: Database Systems, Software Design, Distributed Systems, Natural Language Processing, Data Science, Statistics, Probability, Discrete Mathematics, Management Essentials
- Independent Research Project – Human Computer Interaction: Student Mental Health and Wellbeing Apps

Exchange Semester, Lund University, Lund, Sweden   Sep 2023 – Dec 2023

RELEVANT PROJECTS AND ROLES

Executive member in CodeJam, the biggest annual hackathon in McGill   Sep 2024 – Nov 2024

- Led a technical workshop on Node.js, MongoDB for 50+ attendees, covering backend development best practices and API integration to a front-end application
- Mentored hackathon participants assisting them throughout their project architecture and design decisions ensuring the successful execution of their ideas

2022 World Cup Predictor – Project at McGill Artificial Intelligence Society   Sep 2022 – Dec 2022

- Trained a machine learning model that accurately predicted the 2022 FIFA World Cup final between France and Argentina, correctly crowning Argentina as the winner
- Build a user facing Django application allowing users to select the teams as input to feed it to the model and display the prediction result

Get my MyCourses – Personal Project   Jan 2022

- Automated the process of document retrieval from McGill's learning management system (LMS) by developing a Python bot using Selenium and BeautifulSoup to log in, scrape for new documents across multiple courses, and automatically download and organize them