

Saif Abdelkefi

Full Stack Developer

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Montreal, Quebec, Canada

SUMMARY

- Full stack developer with 3+ years of experience
- Proficient in TypeScript and have deep experience building end-to-end features with React, Next.js and Node.js, and Express focusing on the end user and its needs
- Previous experience building data models and schemas
- Experience with AWS and implementing serverless event-driven solutions

RELEVANT SKILLS

Programming Languages: TypeScript, JavaScript, Python, SQL

Databases: PostgreSQL, MongoDB

Frameworks: Next.js

Libraries: React, Redux, Express.js, Prisma, Mongoose, Three.js

Tools: AWS, Node.js, Zod, Git, Docker, Vite, Postman, Jira

Soft skills: Cross-team collaboration, autonomous, sense of ownership, intellectual curiosity

Languages: Arabic, French, English

PROFESSIONAL EXPERIENCE

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 over-the-air device firmware update system (over 90,000 devices) integrating front-end, back-end, and a bridge application for real-time device polling and updating
- Designed database schemas and relationships in PostgreSQL and developed and maintained a scalable RESTful API using Next.js to streamline tailored access to the database containing the inventory and resources for internal employees and clients.
- Built reusable dynamic UI React components and Next.js server components including submission forms and customizable composable table component for edition and viewing modes.

Project2 – The Visualizer

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

- Designed, developed and tested features including 3D camera transitions and 3D avenue rendering using Three.js and React TypeScript following agile and version control best practices.
- Engineered a dynamic and intuitive UI/UX for control panels and tools, integrating and customizing open-source UI libraries through an iterative user-driven design process

Intern Developer, Raymond Chabot Grant Thornton, Montreal, Canada

May 2022 – Apr 2023

Project 1: Power App

- Designed and developed a PowerBI 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, generating \$80,000+ in revenue.

Project 2: Power automate flows

- Developed multiple automated workflows using Power Automate, enhancing operational efficiency for clients and reducing manual work

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
- 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

GraphCards – Personal Project (Work in Progress)

PRESENT

- Building a Knowledge Management System (KMS) web application that visualizes relationships between concepts as an interactive graph
- Leveraging OpenAI API and machine learning techniques, including word embeddings and clustering, for intelligent context-driven connections

Executive member in CodeJam, the biggest annual hackathon in McGill

Sep 2024 – Nov 2024

- Developed registration and team matching features on the CodeJam website for over 500 users
- Led a technical workshop on Node.js, MongoDB, and AWS serverless functions for 50+ attendees, covering backend development best practices and hands-on implementation.
- 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 an SVM 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 me MyCourses – Personal Project

Jan 2022

- Designed and built a python web scraper using python Selenium and BeautifulSoup, to download new course PDFs from McGill's MyCourses LMS, handling authentication and managing data storage