

# Saif Abdelkefi

## Full Stack Developer

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Montreal, Quebec, Canada

### SUMMARY

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- 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, focusing on the end user needs and experience
- Solid experience in building relational data models and APIs

### RELEVANT SKILLS

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**Programming Languages:** TypeScript, JavaScript, Python, Java SQL

**Databases:** PostgreSQL, MongoDB

**Frameworks:** Next.js, Django

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

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

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

**Languages:** Arabic, French, English

### PROFESSIONAL EXPERIENCE

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**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 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**

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**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**

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**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 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 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