

Alexandre

Cailhier

Full-stack web developer



On demand



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Montreal, Quebec, Canada

Open to relocate

Open to remote work



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[github/alexacai](https://github.com/alexacai)



[portfolio/alexacai](#)

SUMMARY

- Bilingual (English & French – can also communicate in Spanish) Full-stack web developer with a professional background in data-based decision tools development. Experienced in consulting for technological project deployment, focusing on data governance / lifecycle.
- Currently working on building customized and responsive websites, web apps and mobile apps with in-demand technologies / tools and with a focus on delivering the best UX / UI.
- Looking to pursue a career as a web developer and contribute to interesting projects.

KEY SKILLS AND TECHNOLOGIES

HTML, JavaScript, CSS, Bootstrap, React, React Bootstrap, Recharts, Python, Django, Firebase, Node.js, Express, MongoDB, Heroku, Netlify, GitHub, Excel, ArcGIS, Asana, Jira, Confluence

Basic: React Native, TypeScript, Angular, Angular Material, PostgreSQL, MySQL, AWS, Jest, Puppeteer, Cucumber, JSDoc, TypeDoc, WordPress

EDUCATION / CODING PROJECTS

Certificate in Full-stack web development, Career Foundry

May 2023 – Feb 2024

Project: Meet web app

- Web app with an easy-to-use design to help users find the next event they would like to attend.
- Built as a serverless progressive web application (PWA) with React using Google OAuth / AWS Lambda for user's authentication, and Google Calendar API to fetch different events.
- Developed under the Test-Driven Development (TDD) and Behavior Driven Development (BDD) techniques.

Tech stack: React, JavaScript, HTML, CSS, AWS Lambda, Google OAuth, Jest, Cucumber, Puppeteer, Atatus, Recharts

Project: myFlix web app

- FRONTEND: Web app with features such as a search bar and filters to help users find the next movie they would like to watch, and a profile page allowing them to create a list of favorite movies.
- Built as a single-page web app (SPA), designed with state-based routing, several interface views to facilitate users CRUD operations, responsive design to be optimal on any device, and polished visuals for the best user experience.

Tech stack: React, React Bootstrap, JavaScript, HTML, CSS, Netlify

- BACKEND: REST API built from scratch using the MERN tech stack to power myFlix frontend and ensure easy interactions for users whenever they're accessing the web app to read and save information about different movies.
- This API has several endpoints allowing users to do all types of CRUD operations. The data used is stored in a MongoDB database. The API also incorporates security measures such as HTTP authentication, JWT token generation and CORS.

Tech stack: JavaScript, Node.js, Express, MongoDB, Heroku, Postman

Project: Recipe web app

- Built a responsive Django web app that enables users to create an account, browse, share, and comment on recipes, add recipes to their favorites, create private recipes, submit recipes for public display (with quality control filter) and more.
- This web app can be downloaded on desktops or mobiles, similar to a native app, and content is available to both signed-in and unsigned users (with less features for unsigned users).

Tech stack: Django, Python, JavaScript, HTML, CSS, Bootstrap, Pandas, Matplotlib, Heroku

Other relevant coding projects (see portfolio for all projects):

- Movie web app built with Angular (MEAN stack) / Chat mobile app built with React Native and Firebase
- Command-line version of a recipe app built with Python / Workout mapping app built under OOP principles in JavaScript

Master in land management and development (urban planning), Laval University

May 2020

Certificate in English language improvement program, University of Calgary

Aug 2019

Bachelor in anthropology, University of Montreal

May 2018

Open North, Remote (Montreal, QC)**Dec 2021 – Jun 2023****Senior analyst in data and technology policies**

*Open North specializes in data governance and smart cities, and provides different tools on data & technologies, as well as support to governments/actors at all levels on digital topics.

Project 1: Consulting program on data governance best practices

- Contributed to the creation of a consulting program on data governance for +10 Montreal organizations from various sectors, each with smart city projects. Program based on +70 strategies/tactics for better governance practices developed internally.
- Analyzed 2 organizations technological projects to create/provide tools on better data governance practices, hence helping to reduce data-related risks for a local transport app and enhancing trust on data collecting mechanisms for an online survey.

Project 2: Data trusts R&D and prototyping

- Led the R&D process among a group of 8 organizations on a Data trusts prototyping and sensitive data sharing pilot project.
- Organized 6 online interactive workshops on Data trusts & inter-organization sensitive data sharing, using tools such as Miro.
- Presented the work to non-experts. Participated in the development of 8 guides/tools on Data Trusts and data sharing.

Project 3: Automated survey analysis and results report

- Developed an Excel data analysis document taking inputs from surveys to analyze all possible answer combinations and generate up-to-date and read-to-send result reports, cutting survey analysis time by 99% & allowing easier data visualization.

Project 4: Organization-wide culture and values review process

- Led organization-wide culture and values review process over 1 year via workshops with CEO, management, and employees.

Société du Plan Nord (Quebec government), Quebec City, QC**Jan 2021 – Dec 2021****Infrastructure advisor**Project 1: New railroad construction feasibility study

- Acted as a liaison point between the government and the external stakeholders for a feasibility study on a new railroad construction project in a sensitive political context. Participated in steering committee meetings and wrote progress reports.

Project 2: Airports infrastructures upgrade in northern Quebec territory

- Contributed to the analysis of funding requests from private actors for the renovation of 2 northern airports infrastructures.
- Discussed with applicants and recommendations to management on funding requests along with necessary justifications.

Project 3: Truck platooning technology pilot deployment

- Analyzed truck platooning technologies and shared insights to management for better decision making / strategic discussions.

Laval University, Remote (Quebec City, QC)**Jan 2020 – Jan 2021****Professional researcher in urban planning and data-based decision support tools**Project: Development of a decision support tool to prioritize the city's streets according to their potential to be redeveloped

- Organized and led 9 physical/online workshops among a group of multidisciplinary professionals (+10) to structure an analysis logic based on their specific objectives, allowing the creation of a in-computer multi-criteria model of 9 criteria.
- Processed and analyzed large GIS and non-GIS datasets using ArcGIS and other tools, producing results to show which options (street segments) among the +4000 evaluated were the most logical for public investments based on attractiveness score.
- Created well-designed +50 thematic maps to show data analysis results visually, wrote the final report (+100 pages) including methodology, limits and recommendations, and a complementary report on the operations carried out in ArcGIS (+90 pages).

National Capital Commission (NCC) of Canada (Canada government), Ottawa, ON**May 2019 – Aug 2019****Planning and urbanism agent (intern)**Project: Territorial development potential analysis within the National Capital Region

- Analyzed development plans of 3 MRCs and the plans and urban planning programs of +10 cities located in the NCC region.
- Gathered, processed, and analyzed geospatial data using ArcGIS to design and create +15 thematic maps to visually illustrate analysis results. Wrote the final report (+90 pages) and presented final work in front of an NCC committee.