

Laurent Aubin

PERSONAL INFORMATION

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Fluency in French and English

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SUMMARY

Highly skilled Software Engineer with expertise in both backend and frontend development, as well as experience in CI/CD and a strong focus on writing clean code. Successfully led and contributed to multiple projects, including the rebuild of the Fibe TV app trending engine and the development of a full-stack application for controlling advertising posters on Bell customers' TV screensavers. Actively involved in the software engineering community as a former board member and president of the Software Engineering students' association at Université Laval. Currently seeking a remote position in software engineering that leverages technical expertise and project leadership skills.

EDUCATION

Université Laval, Québec, QC **2018 - 2022**
Bachelor's in Software Engineering (B. Ing.).

TECHNICAL SKILLS

- **Backend:** Proficient in Java (Jersey/Jetty), .NET Core, and Typescript. Experienced in using testing frameworks such as Mockito and JUnit/NUnit/Jest and applying database technologies like MongoDB, Redis, and Kafka.
- **Frontend:** Skilled in React, NextJs, Typescript, and TailwindCSS.
- **CI/CD:** Experienced in utilizing Github actions and Gitlab CI, as well as containerization technologies like Docker and orchestration tools like Nomad. Proficient in using PaaS solutions like Vercel and Heroku to deploy and manage web applications.
- **General skills:** Strong understanding of Clean Code, SOLID, TDD, and OOP concepts.

NOTABLE PROJECTS

Live Trending for Fibe TV

Bell Canada **2023**

- Led the rebuild of the live trending engine for the Fibe TV app
- Developed a solution to handle the complexity of generating meaningful viewership trends for customers across Canada's diverse regional channels
- Ensured that regional channels were accurately represented in viewership trends, preventing irrelevant channels from trending in the wrong regions
- Successfully guided the project from design to proof of concept to final implementation
- Processing of 30 million Kafka events daily to generate real-time viewership trends
- Leveraged MongoDB TimeSeries collections to improve performances and reduce time to market

Set-Top-Box Screensaver

Bell Canada **2021**

- Developed a full-stack application that allowed Bell's marketing team to control advertising posters on customers' TV screensavers
- Built an admin portal using React, .NET Core, and MongoDB, enabling easy management of marketing content
- Created a scalable backend service using .NET Core and Redis, capable of handling thousands of requests per minute in a cloud environment
- Enabled region-specific and user-specific ad campaigns by displaying targeted advertising posters on customers' screensavers
- Successfully deployed the screensaver to hundreds of thousands of customers daily, increasing brand visibility and engagement

WORK EXPERIENCE

Bell Canada, Québec, QC **Since June 2022**
Junior Software Developer

- Play a key role as an engineer on the Fibe TV backend, utilizing Java to build new and improve existing APIs in a microservice architecture.
- Lead multiple projects focused on video streaming, packaging, and DRM, contributing to a high-quality user experience.
- Collaborate effectively with software and network teams across Canada to support the Fibe TV app's ongoing development.
- Take on additional responsibilities, such as overseeing intern recruiting and contributing to the team's interview process.

Software Development Student

- Contributed to numerous projects related to video provisioning, video delivery, and customer management of the Fibe TV App, gaining valuable experience in the field.
- Served as a full-time intern during the summers of 2020 and 2021 and continued to work as a part-time engineer during the school year.
- Demonstrated a strong work ethic and a willingness to take on new challenges, consistently meeting or exceeding expectations.
- Collaborated effectively with team members to achieve project goals and support the ongoing development of the Fibe TV App.

CERTIFICATIONS

Certified Widevine Implementation Partner - Google**2022**

- Demonstrated deep understanding and expertise in the Widevine ecosystem, including content protection and digital rights management (DRM)
- Successfully enabled Bell to independently provision Widevine DRM licenses, reducing dependence on Google and improving efficiency

AWARDS

Recipient of the Computer Science and Software Engineering Admission Scholarship**September 2018**

Awarded to the first-year student with the best collegiate (CÉGEP) academic record

VOLUNTEERING

AEGLO Administration Board Member**2018 - 2022**

Association des étudiants en Génie Logiciel (Software Engineering students' association),
Université Laval

- Organized and led several successful events, including an industry networking night that brought in over 75 local tech companies and 300 attendees
- Advocated for student interests by working with the university administration to secure additional resources for the software engineering program
- Successfully trained and mentored new board members to enhance their leadership and teamwork skills.