

Senior Software Engineer - Applied AI & Cloud

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Summary

Senior Software Engineer with 8+ years across France and Canada, specialized in Applied AI & Cloud. Builds production-grade, multi-stage LLM pipelines that turn unstructured data into structured output inside real products, on solid Python, FastAPI, and Java backends. Proven track record driving large-scale AWS migrations, improving reliability, and delivering performant, cost-efficient solutions.

Skills

AI : LLM pipelines, Semantic search, Prompt Engineering, OpenAI API, Structured JSON Output

Programming : Java, Python, SQL, TypeScript, JavaScript

Frameworks : Spring, FastAPI, Angular, VueJS, React Native, SwiftUI / MVVM

Cloud & DevOps : AWS, Azure DevOps, Docker

Databases : MySQL, PostgreSQL, Elasticsearch

Automation & CI/CD : GitHub Actions, Airflow, Autopilot, ETL, Control-M

Testing & Quality : Playwright, Selenium, JUnit5, SonarQube

Experience

Software Engineer at Autodesk

Montreal, Canada

December 2025 – March 2026

- Built a Python pipeline to migrate high-volume columns from DynamoDB to compressed Parquet files on S3, moving rarely-used data to lower-cost storage, relieving tables whose size and maintenance cost in DynamoDB had become unsustainable.
- Designed an automatic TTL-based tiering mechanism: once a column goes untouched past a defined TTL window, its content is offloaded to Parquet and the original record in DynamoDB is replaced by a lightweight pointer to its new storage location.
- Defined how the archived data is partitioned and addressed, and updated the data model so it can still be retrieved efficiently once moved out of DynamoDB.
- Made the migration safe to resume after a partial failure through a checkpointing system, validated with unit and integration tests run against real production data extracts.
- Reduced migration cost and improved throughput by benchmarking compression options (storage size vs. read speed) and comparing AWS API approaches to minimize read/write operations, with key trade-offs documented in RFCs alongside platform architects.

Software Engineer at Storia Technologies

Montreal, Canada

January – September 2025

- Designed and deployed ETL pipelines to process large volumes of PDF documents from S3, including conversion to images, text extraction, and structured JSON generation via the OpenAI API, before indexing into Elasticsearch.
- Automated Elasticsearch schema synchronization by developing Airflow workflows for versioning, reindexing, and alias management.
- Developed automation scripts to initialize new Elasticsearch clusters and streamline environment setup.
- Integrated with Procure's API to extract construction documents into Elasticsearch for advanced search and analytics.
- Deployed complete multi-server environments (EC2 instances with Airflow, Autopilot, backend API, and frontend) on AWS, ensuring scalable infrastructures compliant with client requirements.
- Wrote unit tests for the backend library to ensure code reliability and maintainability.

Software Engineer & Functional Analyst at Talan

Montreal, Canada

January 2023 – December 2024

- Managed MFT file transfer flows and Control-M batch jobs within large-scale banking applications.
- Monitored and resolved production incidents (payments workflows, ServiceNow processes) with direct client interaction.
- Built CI/CD pipelines in Azure DevOps and GitHub Actions, improving delivery speed and reliability across projects.
- Developed Python Lambdas and Java microservices, optimizing database queries and reducing API response times by up to 50%.
- Built workflow automation with Camunda and Form.io, supporting 150+ active users monthly in financial operations.
- Integrated external APIs (e-signature, reporting) and automated testing frameworks (Playwright) into enterprise workflows.
- Participated in codebase modernization by upgrading Angular versions and refactoring legacy code to improve maintainability.

Software Engineer at BNP Paribas

Paris, France

October 2020 – December 2022

- Built and maintained a full-stack project & budget management app (Angular, Java Spring, MySQL) with Bitbucket CI/CD.
- Contributed to a MySQL-to-PostgreSQL database migration.

Developer at Dassault Systemes

Paris, France

September 2017 – September 2020

- Prototyped a Selenium-based automated functional testing framework (library, custom annotations, frontend collaboration).
- Built Vue.js components to visualize aircraft part hierarchies.

Projects

Polisnap - App Store

2026

An iOS market-intelligence app I own end to end. Its two-stage LLM pipeline uses a lightweight classifier to gate market-relevant content before a larger model generates structured impact reports, matched to each user's portfolio for personalized push alerts. Built with agentic development workflows.

Education

Master's degree in Computer Science – ESIEE Paris

2020