

David Francoeur

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Summary

I'm a passionate software developer and I'm looking for new challenges. I love programming in general, and especially functional programming and lately system programming. I have extensive experience working within a functional Scala codebase and I'd be happy to explore other functional languages like Nix, Haskell or dive deeper into Rust.

Education

- Bachelor in Software Engineering
 - École de technologie supérieure (ETS) – August 2015
- Diploma of Collegial Studies in computer technologies
 - Collège Édouard-Montpetit – May 2011

Open Source contributions

- smithy4s-code-generation - web application to view Smithy4s code generation
- courier - core maintainer of a Scala library to send emails
- Smithy ecosystem - improvements to smithy4s, alloy, smithy-translate, smithy-language-server (2023-2024)
- cats-effect - minor permissions API improvements
- Scala Steward - support for GitLab for automatic dependencies update
- Laika - minor fixes in a Scala rendering engine (PDF, HTML, ePUB)
- hpack - minor contribution to python implementation of HTTP2 header encoding

Skills

- Languages : Python, TypeScript, Go, JVM languages
- Frameworks : FastAPI, SQL Alchemy, Alembic, React, Spark, akka, cats
- Language tools : pip/poetry/uv, npm/yarn
- Devops : AWS, Spinnaker, Kubernetes, Helm, Flux, Docker, Vagrant, Ansible, Prometheus, Grafana, ELK
- Databases : SQL (PostgreSQL, MySQL), ElasticSearch, Cassandra, Kafka, Redis
- Tools : Git, Gitlab & GitHub, Jenkins, Jira, Claude Code

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Experiences

Maxa – May 2024 - December 2025 – Senior software developer/Tech Lead

Used technologies:

- Python (FastAPI, SQLAlchemy, Alembic, pandas, Typer), Typescript (React), Snowflake

Notable projects:

- Analyst: a chat interface to retrieve insights on your data (**LLM** via Claude/Cortex)
- Tooling: python CLI to put together Snowflake Native Application from different components
- Data-engine: data transformation engine using dbt to transform data into Maxa's format
- Observability: integrating open telemetry libraries throughout the stack

Disney Streaming – January 2022 - April 2024 – Senior software developer

Used technologies:

- Scala/Java and the surrounding build tool ecosystem

Notable projects:

- API Registry - build and support a registry for Smithy services specifications
- Tooling for the API Registry - code generation (scala/java), formatter, VS Code extension
- Design and implement an observability library for services using the API Registry
- Deployment and monitoring of multiple services providing auxiliary features to the API Registry

Mnubo solutions, an Aspen Tech company – January 2015 - December 2022– Senior software developer

Used technologies:

- Scala (play, akka, cats-effect, Spark), Typescript (Angular)
- MySQL, Pulsar/Kafka, S3/Storage, ElasticSearch

Notable projects:

- A UI to allow users to explore their data (custom dashboards, Jupyter notebooks)
- Scheduling system and its interface to send dashboards periodically via email
- Implementation and maintenance of the Mnubo SDK in five different languages
- Internet facing APIs for data ingestion, data restitution and data modeling
- Scalable data streaming platform