



Hugo Miard

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About me

I am a software developer, a science and art enthusiast, and a mountains lover.

As a SDE I have had the opportunity to work on **large scale systems, databases, small embedded software, CLI utilities, and shared libraries**, although I specialize in storage systems optimizations and **performance** (be it databases, cloud storage, or local I/O).

I have explored a wide range of technologies, from optimizing data storage for large scale **datalakes** to the **fullstack web**. My technologies of choice at the moment would be **Java** (a forever friend) and **DuckDB**.

Key skills

- **Software development:** Java, Python, C, C++, Javascript
- **API design:** SDKs and libraries, protocol design
- **Database engines:** SQL, query planning, indexes, performance
- **Software lifecycle:** tests, CI, CD, infrastructure
- **Pragmatic development:** experimentation, communication, iteration
- **Cloud providers:** Azure, AWS
- **Software infrastructure:** Terraform, Kubernetes, Helm

Experience



Principal SDE / Data Services

@ **SOPHiA GENETICS** February 2017 - March 2025

Over my 8 years at SOPHiA, I have worked in a variety of positions and subjects, at a global scale. Throughout my journey, I played a key role in delivering a performant and reliable product, using quick iterations and a pragmatic approach to delivery, while bridging the gap between different teams.

Principal SDE, Technical lead: 2021-2025

Technical design and performance oriented development for a new generation product. Architecture design review and records, risk assessment, change control and release management.

Data architect: 2020-2021

Building a new datalake for external bio-pharma collaboration, along with tools to leverage genomic insights.

Java developer: 2017-2019

Backend development and maintenance of core webservices (Spring/Hibernate), complex database query optimisation (MariaDB) for large scale genomic data, and frontend development (JavaFX).



Web Developer

@ **MOONDA** July 2015 - January 2017

Web developer

(Symfony2, eZ Publish)

Android developer

Java, JNI

Full stack development

DevOps, Nginx/Apache2, Git/Gitflow, PHP, Angular 1-2, VueJS