



[LinkedIn](#) 
[Twitter](#) 
[500px](#) 
[ObservableHQ](#) 

<http://ig2gi.github.io>
 +41 (0) 76 203 21 69
 @ gilbert.perrin@gmail.com

creative
 passionate
 analytical
 visual

Gilbert Perrin

Data Analysis & Visualization
Frontend Engineering
Business Analysis

French Citizen, born in 1969
Living in Switzerland (permit C) near Lausanne
Engineer and 2 Master's degrees

mother tongue - FRENCH
B2 - ENGLISH

Profile

I have three areas of expertise that all have in common my curiosity and my passion to understand the underlying business area I'm working on: Data Visualisation, Frontend Engineering and Business Analysis. In addition to this expertise, I'm currently finishing a specialisation in Machine Learning.

Data Analysis and Visualisation

I design and create different kind of visual representations: complex interactive visualisations (for exploratory analysis) but also static posters or infographics or 'dashboard' views. Either on small datasets or large datasets, it may also include all or some of the different data analysis steps: data requirements, collection, data wrangling, processing, cleaning, exploratory analysis, modeling, product, communication. My goal: combine both aesthetic form and functionality to communicate information clearly and efficiently to the targetted audience.

Frontend Engineering

I design and develop Frontend Applications, either at components level (visual components integrated into an existing application) or the complete client application. I can also develop quickly UI prototypes (interactive or static) or sketches to support an iterative approach (like Design Thinking) and elaborate complex user interactions and refine my ideas based on stakeholders feedbacks. My goal: constantly paying attention to details!

Business Analysis

I can gather requirements, write functional specifications and model business process, either as part of a full 'Business Analyst' role or either as part of a 'Product Owner' role in 'scrum' organizations for example.

Machine Learning

Foundations of Deep Learning, how to build neural networks and how to lead successful machine learning projects.

Top 6 Soft Skills

ADAPTABILITY CREATIVITY INTERPERSONAL SKILLS PROBLEM SOLVING TEAM WORK TIME MANAGEMENT

Hard Skills

Non exhaustive list, sorted alphabetically (libraries, frameworks or tools commonly used in development, like git, maven, hibernate, mysql, pynum, jquery, ..., are not listed)

AGILE
ARCHITECTURE
BALSAMIQ
CONFLUENCE
CSS
D3.js
DATA ANALYSIS
DATA VIZ.

DATABASES
DEEP LEARNING
ES6
HTML
J2EE
JAVA
JAVA FX
JAVASCRIPT

JIRA
MACHINE LEARNING
Node.js®
PRODUCT OWNER
PROTOTYPING
PYTHON
REQUIREMENTS
SCRUM

SPECIFICATIONS
UI DESIGN
UX DESIGN
WEB DEV
WIREFRAMES

Work Experience

2019

6y 2m

Sophia genetics

healthcare - data-driven medicine

VP Functional & UX Design

May 2018 - Jul 2019

- Responsible for all functional requirements and in charge of evolving the SOPHiA Platform and ensure consistency across the business areas
- Managed Feature Requests & Product Backlog
- Approving (sign-off) or rejecting developed Features
- Implementation of prototypes (UI)

Head of Front-End Development

May 2015 - Apr 2018

- Managed & led a team (4p) in charge of development of functional features for the SOPHiA DDM Platform
- In charge of functional requirements & specifications
- Designed & Implemented a Web Application for the administration of the SOPHiA DDM platform, currently used by the Support Team
- Actively participated in 2 CTI projects (Commission for Technology and Innovation, now Innosuisse)
- Developed functional & technical features on the SOPHiA DDM platform (backend & front-end)
- Implemented several web applications and infographics for internal usage (realtime WorldMap for sophia sequencing usage, people faces, statistics, ...)
- Gene / Transcript viewer in d3.js (personal work)

Data Visualisation Engineer

May 2013 - Apr 2015

- Managed the migration of the SOPHiA DDM Platform from a web application to a Java / JavaFX application: architecture, design & implementation of the core components & screens
- Developed core JavaFX components (authentication, visual components, application components ...)
- Designed & implemented a dynamic Circular Genomic Viewer (circos plot) implemented in d3.js & HTML5.

2013

4m

International AIDS Society

healthcare - nonprofit organization

Data Visualization, Web Developer

Jan - Apr 2013

- Designed and implemented an interactive world map for the website of IAS (International AIDS Society). (javascript, D3.js, SVG, CSS)

2012

3y 2m

Pictet Asset Management

finance - private banking

Senior Software Engineer

Aug 2009 - Oct 2012

- Business and Technical analysis and development on a Web CRM
- Business and technical analysis of a new cash management module for a Portfolio Management System - design & implementation of both server and client side.

2009

1y 1m

Photography

photography

One sabbatical year stuying Photography

Jun 2008 - Jul 2009

- Courses, self-training, travel (Canada), photoreports
- 4 months photo-reporter internship at Police Cantonale Vaudoise
- Photographer at 'La nuit des musées, Lausanne' several years (2009, 2010, 2011, 2012).

Work Experience cont.

2008

6m

RTS - Radio Télévision Suisse

broadcast media

Senior Software Engineer

Jan - Jun 2008

- Architecture, design and implementation of a Workflow-based collaborative application for the completely tapeless, digital production of television programs - architected around REST principles for data integration
- Wrote use-case catalog, architecture, component and framework selection, implementation planning, design and implementation.

2007

2y

Neo Technologies

industry - energy

Senior Software Engineer

Jan 2006 - Dec 2007

- Re-engineering of the in-house electricity-management logistics platform to open it to third parties and to extend the range of managed goods to gas, digital media, etc
- Reverse-engineered use-cases, sequence and class diagrams of the pre-existing system
- Wrote new use-cases and specifications by interviewing all platform stakeholders
- Architected, designed, implemented the augmented system.

2005

1y 4m

Pictet Asset Management

finance - private banking

Senior Software Engineer

Sep 2004 - Dec 2005

- Analysis and design of an infrastructure for notification of changes between applications
- Specific implementation for cache invalidation of the pms application
- Architecture and design of a batch framework which provides an asynchronous, server-based batch processing environment that can wrap, execute and monitor business tasks.

2004

8m

DALIN Software SA

finance - private banking

Senior Software Engineer

Jan - Aug 2004

- Developed a knowledge-based interface (API java 2d) - developed a prototype
- Analysis of a natural language query system - produced analysis and design specifications.

2004

3y 7m

Odyssey Asset Management, Temenos

finance - private banking

Java J2EE Senior Developer

Jul 2000 - Jan 2004

- Design and implementation of a business tag-library to communicate with EJB service layer
- Design of web components - technical person in charge of the EJB layer - responsible for the programming, packaging and deployment environments.

2000

2y

Le BIPE, BDO Advisory

industry - telecommunication

Java Developer

Jul 1998 - Jun 2000

- The principal activity was the migration and the development of an existing data warehouse under (4D) towards new technologies Java and Web within a team of 4 people

Work Experience cont.

1997

2y 3m

Spie Batignolles

industry - energy

Thermal Engineer and Data Scientist

Apr 1995 - Jun 1997

- Head of a Computation Group working on Operational Projects
- Analysis and calculations of the air-conditioning of an enclosure of storage of nuclear waste in Novossibirsk (Siberia)
- Design and sizing of smoke-evacuation in tunnels using the SES (Subway Environmental Simulation) software
- New module implementation (FORTRAN) taking account a new physical model.

Education

1998

1y

Master's degree in Computer Science

computer science

DESS IAO

One year post graduate degree with honours: algorithms, programming languages (Java, C++), database systems, operating systems, language processing, software engineering, multimedia, networks.

1994

1y

Master's degree in Thermodynamics and Fluid Mechanics

physics, data science

IUSTI - CNRS

One year post graduate degree with honours: Thermodynamics in open systems, fluid mechanics, energy, statistical thermodynamics, mathematics, physical transfer in complex fluids, ...

1993

3y

Three Years Engineering School

physics, data science

IUSTI - CNRS

Bachelor + 5. Power systems, physics, heat and mass transfers, numerical modelling, advanced materials, fluid mechanics, ...

1990

2y 1m

Classe Préparatoire - Math SUP/SPE

mathematics

Lycée Militaire Aix-en-Provence

Mathematics and Philosophy

Certificates

2019

4m

Deep Learning Specialization

machine learning

Coursera Specialization by Stanford University.

Foundations of Deep Learning, understanding how to build neural networks, and learn how to lead successful machine learning projects. Convolutional networks, RNNs, LSTM, Adam, Dropout, BatchNorm, Xavier/He initialization, and more. Implementation in Python, numpy and TensorFlow.

CERTIFICATE(S): C1 C2 C3 C4 C5 PERSONAL NOTES

2018

1m

Introduction to the Biology of Cancer

biology - genetics

Coursera Specialization by Stanford University.

Molecular biology of cancer (oncogenes and tumor suppressor genes) as well as the biologic hallmarks of cancer. The course also describes the risk factors for the major cancers worldwide, including lung cancer, breast cancer, colon cancer, prostate cancer, liver cancer, and stomach cancer.

CERTIFICATE(S): C1

2012

3m

Infographics and Data Visualization

data visualization

Knight Center for Journalism in the Americas

Knight Center for Journalism in the Americas: Data Journalism and Visualization with Free Tools.

CERTIFICATE(S): C1

Additional Activities & Interests



Running

I try to run at least 20 km per week, you can catch me on Strava and during the different 10K courses at Lausanne.



Photography

I practice Photography as mentioned in the Experience section, this is a domain where I can express my creativity, please have a look at <https://500px.com/search?q=ig2gi&type=photos>



Readings

I try to read at least 2 books per month. My preferred genres: Philosophical, Informational, Sciences and Science Fiction. My last 3 books:

- 'Factfulness' by Hans Rosling (2019)
- 'Enlightenment Now: The Case for Reason, Science, Humanism, and Progress' by Steven Pinker (2018)
- 'The Art of Statistics: Learning from Data' by David Spiegelhalter (2019)