Linkedin
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🚀 creative
😃 passionate
🧊 analytical
👁 visual

Gilbert Perrin

Data Analysis & Visualization
Frontend Engineering

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

mother tongue - FRENCH
B2 - ENGLISH

Profile

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.
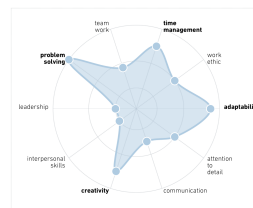
Frontend Engineering

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!

Soft Skills

Top 5

ADAPTABILITY
CREATIVITY
PROBLEM SOLVING
TEAM WORK
TIME MANAGEMENT

See ig2gi.github.com for more details.

Hard Skills

Non exhaustive list of skills, sorted alphabetically.

AGILE	ES6	PROTOTYPING	WIREFRAMES
ARCHITECTURE	HTML	PYTHON	
CSS	J2EE	REQUIREMENTS	
D3.js	JAVA	SCRUM	
DATA ANALYSIS	JAVA FX	SPECIFICATIONS	
DATA VIZ.	JAVASCRIPT	UI DESIGN	
DATABASES	Node.js®	UX DESIGN	
DEEP LEARNING	PRODUCT OWNER	WEB DEV	

Note: the purpose of this list is to give an overview of skills but not to list all the libraries, frameworks or tools commonly used in development (eg: git, svn, maven, hibernate, ejb, mysql , pynum, jquery, ...).

Certificates

2019
3m

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

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

Work Experience

2019
1y 2m

VP Functional & UX Design

healthcare - data-driven medicine

Sophia genetics

· 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)

2018
3y

Head of Front-End Development

healthcare - data-driven medicine

Sophia genetics

· 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 participed 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)

Work Experience cont.

2015
2y

Data Visualisation Engineer
healthcare - data-driven medicine

Sophia genetics
· 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

Data Visualization, Web Developer
healthcare - nonprofit organization

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

2012
3y 2m

Senior Software Engineer
finance - private banking

Pictet Asset Management
· 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

One sabbatical year stuying Photography
photography

Photography
· 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).

2008
1y

Senior Software Engineer
broadcast media

RTS - Radio Télévision Suisse
· 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
1y 4m

Senior Software Engineer
industry - energy

Neo Technologies
· 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.

Work Experience cont.

2005
1y 4m

Senior Software Engineer
Pictet Asset Management

`finance - private banking`

- 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.

2005
1y 7m

Senior Software Engineer
DALIN Software SA

`finance - private banking`

- 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

Java J2EE Senior Developer
Odyssey Asset Management

`finance - private banking`

- 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

Java Developer
BIPE

`industry - telecommunication`

- 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

1997
2y 3m

Thermal Engineer and Data Scientist
Spie Batignolles

`industry - energy`

- 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.

Employee ■ Freelance - Consultant ■ Formation ■ Education ■ Other

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, ...

CERTIFICATE(S):   IUSTI - CNRS

1993
3y

Three Years Engineering School - Energy, Thermics & Fluid Mechanics
`physics, data science`

IUSTI - CNRS

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

CERTIFICATE(S):   IUSTI - CNRS

1990
2y 1m

Classe Préparatoire - Math SUP/SPE
`mathematics`

Lycée Militaire Aix-en-Provence

Mathematics and Philosophy

CERTIFICATE(S):   LYCÉE MILITAIRE AIX-EN-PROVENCE