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

Employee Freelance - Consultant Formation Education Other

Work Experience

2019
Jul
(6 years, 2 months)

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 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)

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.

May 2013

2013
Apr
(4 months)

International AIDS Society
healthcare - nonprofit organization

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

Jan

2012
Oct
(3 years, 2 months)

Pictet Asset Management
finance - private banking

Senior Software Engineer
· 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.

Aug 2009

2009
Jul
(1 year, 1 month)

Photography
photography

One sabbatical year stuying 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).

Jun 2008

Work Experience cont.

2008
Jun
(6 months)

Jan

RTS - Radio Télévision Suisse   broadcast media

Senior Software Engineer
· 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
Dec
(2 years)

Jan 2006

Neo Technologies   industry - energy

Senior Software Engineer
· 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
Dec
(1 year, 4 months)

Sep 2004

Pictet Asset Management   finance - private banking

Senior Software Engineer
· 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
Aug
(8 months)

Jan

DALIN Software SA   finance - private banking

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

2004
Jan
(3 years, 7 months)

Jul 2000

Odyssey Asset Management, Temenos   finance - private banking

Java J2EE Senior Developer
· 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
Jun
(2 years)

Jul 1998

Le BIPE, BDO Advisory   industry - telecommunication

Java Developer
· 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
Jun
(2 years, 3 months)

Apr 1995

Spie Batignolles
industry - energy

Thermal Engineer and Data Scientist
· 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
Aug
(1 year)

Sep 1997

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
Aug
(1 year)

Sep 1993

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
Aug
(3 years)

Sep 1990

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
Aug
(2 years)

Sep 1988

Classe Préparatoire - Math SUP/SPE
mathematics

Lycée Militaire Aix-en-Provence
Mathematics and Philosophy

Certificates

2019
Nov
(4 months)

Jul

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
Feb
(1 month)

Jan

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
Dec
(3 months)

Sep

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 differents 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)