

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](#)

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 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)

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 (circo 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)

Work Experience cont.

2012

3y 2m

Senior Software Engineer

[Pictet Asset Management](#)

finance - private banking

- 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

[RTS - Radio Télévision Suisse](#)

broadcast media

- 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

[Neo Technologies](#)

industry - energy

- 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

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.

Work Experience cont.

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.

Education

1998

10m

Master's degree in Computer Science with honours

DESS IAO

computer science

algorithms, programming languages (Java, C++), database systems, operating systems, language process, ...

1994

10m

Master's degree in Thermodynamics and Fluid Mechanics with Honors

IUSTI - CNRS

physics, data science

Thermodynamics in open systems, fluid mechanics, energy, statistical thermodynamics, mathematics, ...

CERTIFICATE(S): **IUSTI - CNRS**

1993

3y

Three Years Engineering School - Energy, Thermics & Fluid Mechanics

IUSTI - CNRS

physics, data science

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

CERTIFICATE(S): **IUSTI - CNRS**

Education cont.

1990

1y 10m

Classe Préparatoire - Math SUP/SPE

Lycée Militaire Aix-en-Provence

Mathematics and Philosophy

mathematics

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