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 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)

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)

Work Experience cont.

2012
▶ 3y 2m

Senior Software Engineer
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
· 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
· 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
· 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
· 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
· 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

`finance - private banking`

Odyssey Asset Management

· 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

`industry - telecommunication`

BIPE

· 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

`industry - energy`

Spie Batignolles

· 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

`computer science`

DESS IAO

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

1994
10m

Master's degree in Thermodynamics and Fluid Mechanics with Honors

`physics, data science`

IUSTI - CNRS

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

CERTIFICATE(S):   IUSTI - CNRS

1993
3y

Three Years Engineering School - Energy, Thermics & Fluid Mechanics

`physics, data science`

IUSTI - CNRS

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

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

mathematics

■Employee ■Freelance - Consultant ■Formation ■Other

automatically generated with Node.js & pdfkit