Loïs Bilat

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in lois-bilat

billotais

EDUCATION

Master of Science in Computer Science

EPFL

2018 - ongoing

Lausanne. Switzerland

Specialization : Data Analytics

• GPA first year: 5.71 / 6.0

Bachelor of Science in Computer Science

EPFL

2015 - 2018

• Optional Track: Visual Computing

• GPA: 5.47 / 6.0

• Study exchange at Linköping Universitet, Sweden. 2017 - 2018, GPA: 5.97 / 6.0

Maturité Gymnasiale

Gymnase de Burier

2012 - 2015

• Specific Option: Physics and application of Mathematics

• Complementary Option : Computer Science

• Excellence award in Physics

• GPA: 5.32 / 6.0

EXPERIENCE

Student Assistant

EPFL

2019 - ongoing

♀ Lausanne

 Student assistant for a computer science course given to mathematics and physics bachelor students (ICC - Information, Calcul et Communication)

• Helping them with C++ assignement and various theoretical exercices

PowerPoint creation

EPFL

2019 - ongoing

Lausanne

- Creation of PowerPoint presentations that are used in online video classes (MOOCs)
- Transcription from handwritten slides to a coherent and engaging PowerPoint presentation

Summer Job in an Architectural Firm

ABA Partenaires SA

2018

♀ Lausanne

- Modification and correction of blueprints
- Processing replies to requests for tender

Web development

% yvesbilat.ch

🛗 2016

• Creation of a website for an entrepreneur using WordPress

Private Tutoring

Mathematics

2015 - 2017, 2019

• Tutoring for Students in their 9th, 10th school years (14-15 years old)

LANGUAGES

French - Mother Tongue

English - B2

German - B2

PROGRAMMING LANGUAGES

Python
Java
Scala
C/C++
SQL
PHP
HTML
CSS
LaTeX
OpenGL
Assembly
VHDL
Javascript

SKILLS

Topics

Machine Learning Deep Learning
Data Analysis Artificial Intelligence
Reinforcement Learning
Natural Language Processing Computer Vision

Libraries

 Numpy
 Pandas
 Keras
 Spark
 Scikit-learn

 OpenCV
 nltk
 Matplotlib

Applications and Tools

VS Code Git Jupyter Notebooks Anaconda Intellij IDEA Android Studio Wordpress

Operating Systems

Linux (Archlinux, Ubuntu) Windows 10

PROGRAMMING PROJECTS	
Denoising with Generative Models	
Semester Project	
🗎 2019 - ongoing	♀ EPFL - VITA Lab
less common in audio applications. The goal of thi	used for image processing (for instance denoising and super-resolution). However, those techniques are is project is to first evaluate state-of-the-art techniques for audio denoising and audio super-resolution, methods used in image processing to audio processing. Python PyTorch
Detecting Bias in Amazon reviews Course Project	
2018	♥ EPFL
	found in Amazon user reviews, and how to correct it. We worked on 20GB of comments extracted from ncluding Pandas, pyspark, and matplotlib. Python Pandas Matplotlib Jupyter notebook
The Quest for The Holy Grail	
Course Project	
1 2018	♀ LiU
Creation of a 3D maze game with different object	cives, world physics, lightning effects, drawing optimisation. user interface and sound effects. C OpenGl
Tankode	
Junction Hackathon	
2 017	♥ Helsinki, Finland
	ehavior of a Tank had to be programmed by the user. This game was programmed in less than 48 hours the opportunity to learn how to work efficiently in a team by splitting the work in an optimal way. Java
3D game - Tangible user interaction Course Project	
2017	♥ EPFL
Creation of a dexterity 3D game where the enviro processing and recognition and was done using <i>Pr</i>	onnement had to be controlled by moving a LEGO board in front of a camera. It implemented some image rocessing. Java
XBlast	
Course Project	A
2016	♥ EPFL
Creation of a multiplayer video game based on the	e game Bomberman. It could be played by up to 4 player on different computers. Java
Caland Marstal	

Calcul Mental

% Android Application

₩ 2015

Creation of an Android app that people can use to do some small calculations (additions, substractions, multiplications and divisions). Different modes, such as a test mode, a timed mode and a rush mode are available. Java Android Studio

La Pipopipette

% Travail de Maturité

₩ 2014 **♀** Gymnase de Burier

Creation of a multiplayer video game for iOS based on the game Dots and Boxes. An artificial Intelligence was implemented. Objective-C