NATHAN HABIB

Software engineering student at EPITA Software Engineering Internship

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in nathan-habib1907

PROFESSIONAL EXPERIENCE

Software Engineering Intern

Norbert Health

- **Sep 2021 Jan 2022**
- Paris
- Norbert Health is a startup making an ambient vital sign scanner.
- Prototyped contactless blood pressure monitoring.
- Built QA tools, adding metrics and data visualization for better development cycle.
- Docker, python, C++, Gitlab/CI/CD, Jira, Agile programming

Research Intern

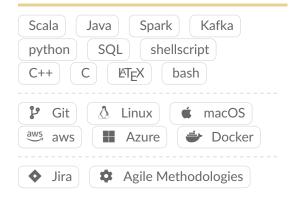
Laboratoire de Recherche et Developpement de l'Epita, LRDE

- **i** Jun 2020 Aug 2020
- Paris
- Find the report here.
- Used convolutional neural networks to segment lesions in lung's CT-scans.
- Used explainable artificial intelligence to get more reliable results.
- python, Jupyter Notebooks, Tensorflow, LTFX

PROJECTS

- Foo.bar coding challenge: Coding challenge by Google, invitation based, and used for hiring.
- Practical MLOps: Streamlined AI models to production using CI/CD and cloud providers with the book Practical MLOps: Operationalizing Machine Learning Models.
- Brain tumor segmentation: Researched brain tumor segmentation (BraTs dataset) using transformers. The goal is to get better results and a more explicable model, still a work in progress.
- Introduction to neural networks: Built a neural net capable of classifying boats, using python and Keras.
- Python for Machine Learning: Introductory class for Machine Learning, using python, we had to implement common ML algorithms classification, regression, clustering etc.
- Peaceland: Big data project: generation, streaming, processing and storage of data being sent from drones flying over a city. Built using Scala.
- Functional Programming in Scala: Studied Functional Programming using the book: Functional Programming in Scala.
- Java Web Services: REST API from scratch, built using a layered architecture, using Java.
- PING: Built a fully functional IDE using Java.
- Chess: Chess engine capable of playing against human players and other bots online, using C++.
- Neural network: Developed a neural network from scratch using C++ and Go.
- 42sh: Built a shell conforming to the POSIX norm, using C.
- Libstream: Built IO functions from the C standard library, using C.

CORE COMPETENCIES



EDUCATION

Master of engineering Software engineering and data science EPITA

Sept 2018 - Jun 2023

Study abroad

Oxford Brookes University, Oxford

i Jan 2020 -- May 2020

Baccalauréat Scientifique Lycée du St Esprit, Beauvais

Sept 2015 - Jun 2018

INFO

Nationalities:

- French
- American

French

English



HOBBIES

- Rock climbing (15h / week)
- Guitar (mostly self-taught) for 5 years.
- Linux ricing (workflow and workspace customization under a Unix system)
- · Learning about new technologies