NATHAN HABIB

Software engineering student at EPITA
Software Engineering Internship

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NathanHB

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

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*, *LaTeX*

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

Scala | Java | Spark | Kafka | python | SQL | shellscript | C++ | C | LaTeX | bash

Git | Linux | macOS | aws | Azure | Docker

Jira | Agile Methodologies

EDUCATION

Master of engineering
Software engineering and data science

EPITA

Sept 2018 – Jun 2023

Study abroad

Oxford Brookes University, Oxford

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