VALENTIN POIROT

SOFTWARE DEVELOPMENT ENGINEER

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EDUCATIONS

IMT Mines Alès 2021 - 2024

Master's Degree in Software Engineering

Czech Technical University in Prague

Juin - Juill 2022

University exchange, Computer Science/Statistics

University of Toulouse 3 - Paul Sabatier

2019 - 2021

Associate Degree in Electrical and Industrial Computing Engineering

RELEVANT COURSES

Algorithmics

Security

Artificial Intelligence

Embedded Systems

· Software Architecture

Data Structures

Information Systems

Electronics (Analog/

Cloud Computing

Database Management

Architecture

Digital)

EXPERIENCE

CEA LETI Sept 2021 - Sept 2024

Software Development Engineer in Photolithography - Apprenticeship

- Design, development, and maintenance of software used for lithography processes in the semiconductor industry (Pvthon).
- Calibration and simulation of physical models for analyzing optical system behaviors.
- Interdisciplinary collaboration: Worked closely with R&D teams, engineers, and scientists to improve the performance
 of lithography tools.

AEC Avr - Juin 2021

Research Associate

 Conducted feasibility studies, prepared calculation notes, and developed diagrams for the integration of digital protections.

PROJECTS

Semantic Segmentation for Satellite Image Analysis

Study Project - IMT Mines Alès - Python, PyTorch, pandas, numpy, matplotlib

- Designed and deployed deep learning models (AlexNet, ResNet, U-Net) for the classification and segmentation of satellite images, processing over 77,000 images.
- · Evaluated and optimized model performance.
- Developed a graphical interface.

Design and Optimization of a Cloud-based Social Network

Study Project - IMT Mines Alès - AWS, Python

 Developed the architecture of a social network on AWS with optimization of design patterns for microservices and DevOps integration.

TECHNICAL SKILLS

- Languages: Python, SQL, Linux, Java, C, C#
- · Development Tools: VS Code, JetBrains IDE, AWS
- · Technologies/Frameworks: Linux, Jenkins, GitHub, Docker

ASSOCIATIVE ACTIVITIES

Trésorier du comité 2023 de l'association EMA'IT

Support for associations and digital projects of IMT Mines Alès students