DAVID CHEN

CONTACT INFOS

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EDUCATION

Engineering Degree
École supérieure d'informatique, électronique, automatique (ESIEA)
majoring in IA & Data, (2019-2024)
Foreign Exchange
Wrexham Glyndwr University (2021-2022)

SKILLS
Technical skills:
- **Programming language:**
  - Python (Pytorch, Tensorflow, Plotly Dash, Pandas, Pyspark ...)
  - Java (Spring Boot)
  - JavaScript (Angular)
  - R
- **Database:**
  - SQL (PostgreSQL)
- **Tools and technologies:**
  - Docker
  - Git
  - Kafka
  - Tableau

Certification:
- « **Data Analysis with Python** », *freeCodeCamp*, 12/2022
- « **JavaScript Algorithms and Data Structures** », *freeCodeCamp*, 05/2023
- « **Relationnal Database** », *freeCodeCamp*, 03/2025

Professional qualities:
- Rigour
- Resourcefulness
- Honesty

LANGUAGES
- French: Native language
- English: Fluent (TOEIC 980 – equivalent to CEFR level C1)

EXPERIENCES

12/02/2024 - 09/08/2024: Consultant for Colissimo for the project "Webhook", *Artik Consulting, Intership*
- Internal training with Artik Consulting:
  - Angular for web development, Spring Boot for building back-end services, Kafka and Spark for data processing, Elasticsearch and Kibana for analysis and visualization.
  - Drafted a response to a call for tenders for ESCP.
- Onboarding and integration into Squad 1 on the "Webhook" project, a real-time parcel tracking system using webhooks, allowing status updates without direct server requests.
  - An MVP (Minimum Viable Product) of the project has already reduced the number of daily calls from 5.9 million to 1.7 million — a 70% decrease in traffic.
  - I am involved in the industrialization of the project, particularly through the migration of the API to Spring Boot.
    - Message mapping for the various Kafka topics.
    - Feature implementation on the API back-end using Spring Boot.
    - Unit and Integration testing using Mockito and JUnit 5
- Development tools: Java, Spring Boot (Swagger), Kafka, Git, Scrum, JUnit, Mockito

22/05/2023 - 01/09/2023: Prototyping of a web application demonstrating ML models, Technilog, Internship
- As part of the evolution of Technilog's solutions, a web application was developed to showcase new features.
- Developed core functionalities within the application:
  - Variable forecasting: predicting the future value of a variable
  - Impact analysis: identifying relationships and influences between variables within a system
  - Anomaly detection: determining whether a system's behavior is abnormal
  - Implemented quality-of-life improvements such as user authentication and model update mechanisms
- Development tools: Python, Plotly Dash, Git

03/04/2023 - 17/05/2023: Automation strategy for system test analysis tools, MBDA, Internship
- A Python API for automation had already been developed. My role was to explore and leverage its capabilities.
  - Gained familiarity with the proprietary analysis software and the internal Python API
  - Developed plugins for the analysis software using Java and NetBeans
- Development tools: Java, Python, internal API

PROJECT

01/09/2023 - 09/02/2024: "Affective Computing: Recognition of Unconventional Emotions", Learning Data & Robotics, ESIEA
- The project aimed to develop a solution for classifying emotions from the CFEE dataset ("Compound Facial Expressions of Emotion") in an incremental manner.
  - Wrote a literature review on incremental learning and active learning
  - Developed a semi-automatic annotation tool to enable active learning
  - Designed and implemented incremental models for both class- and data-level learning
- Development tools: Python, PyTorch, Scikit-learn, TensorFlow, Plotly Dash, Git