

Maxence Marques-Pierre

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https://eip.epitech.eu/2024/vakary/#/

Software Engineer

Recent graduate with a Bachelor's in Information Technology and an imminent Master's degree, I've garnered 2 years of hands-on experience as a Full Stack Developer, Software Engineer, Front-End Developer, and Business Intelligence Team Support. With a robust 5-year background in diverse programming languages, I specialize in tackling complex issues. My year abroad in New York, culminating in a Certificate of Completion for Technology Challenges in the Financial Industry, equipped me with unique skills in Python-based trading algorithms and data analysis with R, setting me apart in the field of information technology.

Skills

- C
- C++
- Swift
- SwiftUI
- Angular
- Angular.js
- Vue.js
- ReactJS
- NodeJS
- React-Native
- Python
- Assembly
- Xcode
- Git
- GitHub
- Gitlab
- Docker
- Postman
- GitKraken
- MongoDB
- Mac
- Linux
- R
- French (native)
- English (fluent)

Professional Experience

PandaLab, a comprehensive service provider for healthcare professionals, healthcare institutions, and patients, aimed at facilitating exchange and better coordination among healthcare stakeholders. - France

Ambulatory Health Care Services

Full Stack Developer

9/2023 - Current

- Modified front-end functionalities using Vue.js and back-end features with Node.js to add tags for classifying medical documents, augmented tagging capabilities.
- Created statistical features for the analytics platform. This includes

calculating and displaying the number of emails and text messages sent by teams and generating statistics on user accounts, providing valuable insights for strategic decision-making.

ALERION, a leading autonomous robotics consultancy. - France

Management, Scientific, and Technical Consulting Services

Software Engineer

4/2022 - 7/2022

- Developed a web application using React.js and Docker to visualize geolocated sensor data (digital terrain model).
- Integrated the model onto a 2D (two-dimensional) base map, enabling accurate geospatial data localization for enhanced precision.
- Extended the visualization capabilities by introducing a 3D (three-dimensional) representation of the model within the web platform, enhancing the overall user experience.
- Conducted rigorous testing of a neural network with door handle images, optimizing color and resolution through meticulous image capture with different sensors, resulting in improved AI recognition accuracy.
- Created a Python script to annotate hundreds of images by generating rectangles around the objects (door handles) and saving the annotations in text files.
- Developed Python script to organize the images and annotations into train, validation, and test folders, allocating 80% for training, and 10% each for validation and testing.
- Implemented a neural network, training on about 1,000 images and annotations within an hour, and subsequently validated the results using a webcam, achieving confidence indices ranging from 60% to 90%.
- Conducted real-life testing on a robot, involving understanding the Software Development Kit, extracting image streams from front cameras, and creating a Python script for door detection. Achieved an accuracy boost, with confidence indices ranging from 80% to 90%.
- Optimized the robot's door-opening script by minimizing user actions, replacing manual clicks on the door handle and opening direction with automated coordinates derived from the detection rectangle. This enhancement effectively reduces user interactions by half.

IMMOPAD, a leading French provider of property inventory software. - France

Real Estate

Front-End Developer

9/2021 - 3/2022

- Spearheaded the integration of a new Angular.js feature, automating the 'supplementary property inventory' process and reducing time spent on property inventory updates.
- Implemented an additional Angular.js functionality, enabling users to review login history across devices and enhancing account security against unauthorized access incidents, resulting in a 5% security increase.
- Developed an Angular.js feature for users to effortlessly generate property listings, including details like photos, area, and price, leading to a 20% reduction in listing creation time. Streamlined the process for compatibility with various online property advertisement platforms.

PriceWaterhouseCoopers, a globally recognized 'Big Four' accounting and professional services firm, equivalent to the top-tier firms such as

Deloitte, Ernst & Young, and KPMG - Luxembourg

Management Consulting Services

Business Intelligence Team Support

7/2020 - 12/2020

- Spearheaded a collaborative project with the Data Collection team, implementing an Alteryx-powered application to eliminate manual errors and enhance efficiency in merging Excel files. Achieved a 90% reduction in file merging time, significantly boosting overall data processing efficiency.
- Authored comprehensive documentation for the Alteryx application, empowering users to utilize the tool for merging Excel files independently. This resulted in a 90% reduction in support requests related to data merging.
- Spearheaded and executed a project assigned by the Data Architecture team to migrate 104 database models from Erwin to International Business Machines Corporation (IBM) InfoSphere® Data Architect, mitigating software obsolescence and ensuring a smooth transition for the company.
- Spearheaded the seamless integration of the Digital Service Desk (HEAT) with Microsoft TFS (Team Foundation Server), automating the transfer of user requests and optimizing task management efficiency.

Education & Certifications

Master's degree in Computer Science & Programming, 2024

Epitech (European Institute of Technology), Paris, Ranked 2nd among the best computer science schools of France in 2023. Since 1999, Epitech has been training experts who are among the most recognized in the field of technology and computer science in France., France

Certificate in Technology Challenges in the Financial Industry, 2023

THE NEW SCHOOL CENTER FOR MEDIA, New York, United States of America

Bachelor's degree in Computer Science & Programming, 2022

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