

# MAXENCE MARQUES-PIERRE

SOFTWARE ENGINEER

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## SUMMARY

I am a recent Master's graduate from Epitech (European Institute of Technology) in Paris, France, holding a Bachelor's and Master's degree in Computer Science & Programming. I have over five years of experience in programming and software development, during which I led an international team of 10 collaborators on an innovative project. Following a year in New York City focused on Fintech, I successfully completed my final six-month internship as a freelance full-stack developer for a French company. I am now actively seeking my first full-time software engineer / developer opportunity and am available to start immediately in Miami, Florida.

## WORK EXPERIENCE

### Immopad - Freelance from Miami, Florida

Full-stack Developer Intern • MAR 2024 - AUG 2024

- Integrated parameters for each property rental, allowing modifications to rental details (price, address, owner information), user access rights, addition of supplementary services, and linking plugins to share property information on platforms like Airbnb and Booking.
- Developed a customization system that allows users to add their logo, automatically integrating it into all generated documents and adapting document colors and texts to match the logo, leading to a 40% increase in personalization.
- Created a new feature enabling property owners to request property inspections by maintenance agents, simplifying client departures and ensuring more thorough inspections. This improvement resulted in a 20% reduction in client departure issues.
- Optimized the owner's calendar by adding status updates for tasks, providing better visualization and organization of ongoing, to-do, and completed tasks, which improved task management efficiency by 50%.
- Implemented a platform blocking system for users with outstanding payments, directing them to the payment portal and restricting platform usage until payment issues are resolved. This measure reduced unpaid dues by 25%.

### Pandalab - Nancy, France

Full Stack Developer Intern • SEP 2023 - FEB 2024

- 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 - Nancy, France

Software Engineer Intern • APR 2022 - JUL 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.

## Mydomus - Metz, France

Front-End Developer Intern • SEP 2021 - MAR 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 20% 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 - Luxembourg City, Luxembourg

Business Intelligence Team Support Intern • JUL 2020 - DEC 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.
- Contributed to the enhancement of HEAT (PWC's Digital Service Desk) with Microsoft TFS (Team Foundation Server), automating the transfer of user requests and optimizing task management efficiency.

## SKILLS

### Programming Languages:

- C
- C#
- Assembly
- Swift
- React-Native
- Angular
- VueJS
- R
- Arduino
- C++
- Python
- Haskell
- SwiftUI
- ReactJS
- AngularJS
- NodeJS
- Astro

### Development Tools & Software:

- Xcode
- Docker
- MongoDB
- GitKraken
- Alteryx
- Postman
- Git

### Languages:

- French (Native)
- English (Fluent)

## EDUCATION

### Master's degree in Computer Science & Programming

Epitech (European Institute of Technology) - Paris, France • SEP 2022 - AUG 2024

### Certificate in Technology Challenges in the Financial Industry

THE NEW SCHOOL CENTER FOR MEDIA - New York City, United States • SEP 2022 - JUL 2023

### Bachelor's degree in Computer Science & Programming

Epitech (European Institute of Technology) - Nancy, France • SEP 2019 - AUG 2022

### Scientific Baccalaureate - Engineering sciences specialization

Henri Loritz high school - Nancy, France • SEP 2016 - JUL 2019