MAXENCE MARQUES-PIERRE

SOFTWARE ENGINEER

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SUMMARY

Innovative **Software Engineer** with a **Master's in Computer Science** and a proven track record of developing **data-driven solutions** and **leading cross-functional teams**. Expertise in **full-stack development, product management**, and leveraging **cutting-edge technologies** to drive business growth. Demonstrated success in **creating scalable web applications**, automating processes, and **delivering high-impact technical solutions**.

SKILLS

Programming Languages:

- **Core Languages**: C, C++, C#, Python, R, Assembly, Haskell, Arduino
- **Web & Mobile Development**: JavaScript (React.js, React-Native, Vue.js, Next.js, Node.js), Swift, SwiftUI

Frameworks & Technologies:

- **Web Frameworks**: Angular, AngularJS, Astro
- **Cloud & DevOps**: AWS (CloudFormation, S3, Lambda), Docker, Vercel
- **Data Analytics**: Alteryx

Development Tools & Platforms:

- **Version Control**: Git
- **Database**: MongoDB, DynamoDB
- **IDE & Tools**: Xcode, Postman, GitKraken
- **Business Tools**: Salesforce, LeadTrac

Languages:

- French (Native)
- English (Fluent)

WORK EXPERIENCE

Debt Consultants Group - Miami, Florida

Software Engineer / Product Manager • OCTOBER 2024 - PRESENT

- **Led** end-to-end development of **five major software projects**—covering r**equirements-gathering, architecture, coding, and deployment**.
- **Designed and built** a comprehensive client onboarding portal (**Next.js, Node.js, AWS**) that:
  - **Automates** lead creation and qualification processes (registration form, debt and payment info, secure document upload).
  - **Integrates** with **Salesforce** and **LeadTrac** for real-time lead updates.
  - **Provides** multi-level admin views (Sales Admin, Underwriter, Super Admin) to monitor and assist client progress.
  - **Leverages AWS CloudFormation, Lambda, DynamoDB**, and **S3** for a secure, scalable infrastructure.
- **Developed** a **Reddit scraping system** (**Python**) to identify and engage potential leads:
  - **AI-driven filtering** flags posts about business debt and MCA.
  - Automatically logs leads into **Google Sheets** and, upon marketing approval, posts targeted replies.
- **Created** a **Yellow Pages web scraper** (**Python, Selenium**) to generate large-scale lead lists, producing a **database of over 1 million** potential contacts for outbound marketing.
- **Built** a **Courthouses scraper** (**Python, Selenium**) to retrieve newly filed complaint documents from the **Miami** and **New York courthouses**, enabling real-time lead generation from updated legal records.
- **Implemented** a **Python-based daily reporting tool** that consolidates performance files from three offices, automatically uploading summarized reports to **Google Sheets**—saving ~4 hours of manual work per day.
- **Established** coding standards and best practices across the organization:
  - Introduced **GitHub workflows, code reviews**, and **agile project management**.
  - Collaborated with **Sales, Underwriting**, and **Executive** teams to align technical solutions with business goals.

Immopad - Freelance from Miami, Florida
Full-stack Developer Intern • MARCH 2024 - AUGUST 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 • SEPTEMBER 2023 - FEBRUARY 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 • APRIL 2022 - JULY 2022

- *Developed* a **web application** using **React.js** and **Docker** to v**isualize 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* a **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 • SEPTEMBER 2021 - MARCH 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 • JULY 2020 - DECEMBER 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 merge files independently—cutting **support requests** by **90%**.
- **Executed** a project for the **Data Architecture** team to migrate **104 database models** from **Erwin** to I**BM InfoSphere® Data Architect**, mitigating software obsolescence.
- **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.

EDUCATION

Master's degree in Computer Science & Programming
Epitech (European Institute of Technology) - Paris, France • SEPTEMBER 2022 - AUGUST 2024

Certificate in Technology Challenges in the Financial Industry
THE NEW SCHOOL CENTER FOR MEDIA - New York City, United States • SEPTEMBER 2022 - JULY 2023

Bachelor's degree in Computer Science & Programming
Epitech (European Institute of Technology) - Nancy, France • SEPTEMBER 2019 - AUGUST 2022

Scientific Baccalaureate - Engineering sciences specialization
Henri Loritz high school - Nancy, France • SEPTEMBER 2016 - JULY 2019