Łukasz Piasecki

Python Developer

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🔗 lukasz-portfolio.vercel.app

Programming

- Python – 4 yers exp.
  - Django, DRF
  - Pandas, NumPy, SciPy
  - PyTest
  - RobotFramework
  - Appium, Selenium
  - Jupyter Notebook
  - Plotly, matplotlib
  - PyQt5
- JavaScript – React.js
- HTML 5
- C#, C++

Technologies

- PostgreSQL, MySQL
- REST API
- CI/CD
- Docker
- Azure cloud
- Redis, Celery
- ML & AI – PyTorch, TensorFlow
- Git
- Agile
- Bash. Linux

Languages

- English – B2/C1
- Polish – C2
- French – A1

WORK EXPERIENCE

ABB – R&D - IT Systems Engineer   Mar. 2023 - present

- Invented and developed an application that automated and accelerated the work of a team of electronics engineers by 700%, also reducing the number of errors using pyVisa, Pandas, Numpy, PyQt5
- Led and developed a backend for a web apps optimizing division workflow, using Django REST Framework, PostgreSQL, Docker
- Developed drivers and algorithms for internal applications and tools using: scipy, numpy, pyserial.
- Developed an application for the ABB International Technology Forum to showcase real-time operation and data analysis of ABB smart sensors using PyQt5 and Qt-Designer.
- Data analysis and finding anomalies in data from ABB smart sensors using Pandas, NumPy.
- Lead R&D project for developing and testing innovative gateway solutions.
- Independently research phenomena, develop prototypes and algorithms, and analyze data in electric motor diagnostics.
- Engineered and automated multiple test stations, procedures, and interfaces, boosting efficiency and accuracy in testing.
- Regularly selected first on the team to test and evaluate new AI-based tools such as GitHub Copilot, internal AI assistants.

ABB – R&D - Intern   Oct. 2021 - Mar. 2023

- Developing automation methods for test cases.
- Independently developing and analyzing functional tests.
- While still an intern, I was honored as Employee of the Month.

PROJECTS

FOUND TRACKER – web application
https://github.com/LukaszPiasecki13/Django_React_FoundTracker

Django REST API & PostgreSQL & React.js

- I created a full-fledged web application to track my investment assets.
- Stores data, updates stock valuations and parameters from Yahoo Finance.
- It processes data, calculates key KPIs, and draws charts supporting the user's investment decisions.
- The application is constantly being developed.

AI Chatbot
https://github.com/LukaszPiasecki13/AI_Chatbot
Python & Llama

- I created my own chatbot that uses data from the documents I share with it.
- By selecting appropriate prompts, the chatbot provides answers based on the information contained in the documents.
- It using Llama 3.1 LLM model, but there is possibility using models from OpenAI, Microsoft, and others.

PROJECTS

MAGNETIC FILED SCANNER PLUG
https://github.com/Domix14/magneticfieldscanner

Python & JavaScript

- In cooperation with two other colleagues, created a working plugin for OctoPrint.
- Prepared plug using a magnetic field probe, vector analyzer, 3D printer and algorithm, which made it possible to perform scanning in the magnetic field of the objects.
- The program allows for 3D visualization of the scan being performed almost in real time.

CERTIFICATES

Python for Intermediate Users *- Rafal Mobilo*	Nov. 2022
Big Data processing using Apache Spark *- Bottega IT Minds*	Sep. 2023
PRINCE2® Foundation *- PeopleCert*	Nov. 2023
AgilePM Agile Project Management *- APMG International*	Nov. 2023
ISTQB® Foundation *- SJSI*	May 2024

VOLUNTARY WORK

PROJEKT A PAULO   2019 - present
Coordinator of a group of several dozen volunteers

The organization gathers a bunch of students in Cracow, who assist the elderly whom no one remembers, by making visits, renovating their homes, helping with purchases and cleaning ect.

BEST AGH KRAKÓW   2020 - 2022
Fundraising Coordinator of European Engineering Competition Cracow 2021 & Grants Coordinator 2022

Creating an offer, finding and negotiating with potential partners. Coordination of the team responsible for contact, barter and grants in EBEC. Negotiation and cooperation with companies from all over Poland.

EDUCATION

MASTER   Mar. 2023 - Sep. 2024
AGH Cracow
Electronics and Telecommunication

MASTER'S THESIS TOPIC – Intelligent management of the electric vehicle charging system using a web application
Django REST API & SciPy & Pandas

- The culmination of the diploma thesis was the presentation of a scientific poster at the Scientific Conference of Distributed Energy KNER'2024

ENGINEER   Oct. 2019 - Jul. 2023
AGH Cracow
Electronics