



# Łukasz Piasecki

## Python Developer

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### 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](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](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.

## Gallup Strengths\*

- **Positivity** – having contagious enthusiasm. They are upbeat and can get others excited about what they are going to do.
- **Achiever** – working hard and possessing a great deal of stamina. They take immense satisfaction in being busy and productive.
- **Arranger** – organizing, but they also have a flexibility that complements this ability. They like to determine how all of the pieces and resources can be arranged for maximum productivity.
- **Maximizer** – focusing on strengths as a way to stimulate personal and group excellence. They seek to transform something strong into something superb.
- **Context** – thinking about the past. They understand the present by researching its history.

\*The Gallup CliftonStrengths®

I hereby agree to the processing of personal data included in my application for the needs necessary to carry out the recruitment process in accordance with art. 6 par. 1 lit. a Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation)

## PROJECTS

### MAGNETIC FIELD 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