

Stanisław Rogala
Backend Developer

[GitHub](#)

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I am looking for a remote, or stationary long-term job as a backend, AI and basic frontend developer with Python/Django, PyTorch/ Tensorflow, or possibly PHP/Symfony. Mid. Available immediately, but prioritizing fit.

Areas of Expertise: Server-Side Logic, Database Management, CRUD operation, API Development, API integration, Authentication and Authorization, Server Management, Performance Optimization, AI (data collecting and preparing, training and testing), Unit and Integration Testing, Containerization, CI Pipelines, AWS Deploy, Version Control, Documentation, Basic Frontend, Scripts for 3D software like 3D Studio Max.

Skills	Python, PHP, C++, C# Django, Symfony PyTorch, Pandas, NumPy, Matplotlib, Pytest, CSV, OpenCV AI training, Data collecting, Data processing, Web scrapping, SQL, MySQL, SQLite, relational
	databases (ORM), debug Linux HTML5, CSS, JavaScript, Bootstrap AWS (EB, EC2, λ), Docker, GitHub, Git, Version Control Systems, DDEV, data algorithms, CI/CD, VTUNE, Developed interpersonal skills, Attention to detail, Flexible, Innovative, Problem-solving, Collaboration skills
Tools	Visual Studio Code, PyCharm 3D MAX, Autocad, Solidworks, Adobe Package, and others
Lang	English- C1, Chinese- A1, Polish- native
Hobby	Programming, Backend, Big Data, AI, Electronics service, New technologies, 3D printing, 3D graphic, Extreme sports, Geopolitics, Stock exchange

GitHub Projects

AI Stock exchange analyzer (2024-)- An application that gathers online data about companies listed on the Polish stock exchange, analyzing specific variables and their correlations with stock prices. It leverages a pre-trained AI model to conduct the analysis, using web scraping to collect relevant data from the internet.

Skills: PyTorch, Django, Web scrapping, RESTful APIs, GitHub, Docker, MySQL.

Reddit (2024-)- Developed a platform for users to share content and engage in discussions, with a focus on backend features like posts, comments, and rewards. Implemented RESTful APIs and optimized database structure for seamless functionality.

Skills: Python, Django, RESTful APIs, MySQL, PyTest, Nginx, Docker, AWS, JS, HTML5, CSS, GitHub, ClickUp.

Markowitz Theory Stock Portfolio Optimization (Sep 2023 - Apr 2024)

Sophisticated tool for optimizing investment portfolios, grounded in Markowitz's Modern Portfolio Theory. The tool dynamically analyzes big stock data from the Polish stock exchange to generate optimal asset allocations, balancing risk and return. Tools of this type are used by investment funds.

Skills: Django, Pandas, Polars, Matplotlib, AWS, Data Science, BigData, Data processing, Web applications.

Vending Machine System (Sep 2023 - Apr 2024)

Developed a vending machine system controlling lights of sport courts after coin or bill payments, programmed in C++ using Arduino. Integrated the system with manual electric switchboards.

Skills: C++, Arduino, Electronics, Embedded Systems, signal filtering, device engineering, device projecting.

Multiplayer Pong Game (2023)

Created a real-time online multiplayer pong game through PubNub servers. Designed an intuitive, easy-to-use interface with minimal setup for players.

Skills: Python, PubNub, Real-time multiplayer, Game design, interface design, Signal exchange, synchronization.

Work History

2024- now StayInFront Digital

-Optimizing (VTUNE) c++ scripts for: elementary geometry, feature detection in images (split ASIFT), image stitching. Time reduce 40-60%.

-Implementing state-of-the-art CNN-based image segmentation and recognition models (e.g. InternImage, DeepLabV3+). Research to select optimal architectures. Collecting data and annotations, performing data cleaning, augmentation, and preprocessing to improve model generalization. Training models on GPU, tuning, evaluating performance using metrics like mIoU, precision, recall, and F1-score. Monitoring training loss and validation accuracy, applying techniques like early stopping and learning rate scheduling. Improved segmentation accuracy from 79% to 86% mIoU.

-Creating and maintaining databases (Django) for clients and their products photos.

2022- 2024 Backend and basic frontend dev (Qbit Studio selfemployed)

-Creating shop application: Designing the database schema, creating data models (products, users, orders), handling user registration and authentication, managing sessions and permissions, implementing the shopping cart and checkout logic, payment gateways,, building and securing APIs, managing inventory, sending transactional emails, handling returns and cancellations, logging and monitoring errors, writing tests, optimizing performance and queries, ensuring security best practices, creating admin tools or APIs, documenting the backend

-Creating applications to calculate the risks, profit and asset weights of portfolios on stock exchange market, deploying the app to the cloud, preapering data, process data, Implementation of Markovitz theory as an algorithm.

Courses

2022- Python. 100 Days /100 projects. The Complete Python Bootcamp

2022- Python Django - The Practical Guide, Complete Web Dev Bootcamp

2021- CS50 Harvard course (C#)

Education

2020- 2023 Mechatronics, engineer- University of Tech.

2015- 2020 Nanotechnology, Master degree - UAM