VLADYSLAV FEDORIUK

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OBJECTIVE

Dedicated and results-oriented Full-stack Python Web Developer with over 3 years of commercial experience designing, implementing, and optimizing complex backend and front-end solutions. Proficient in Database Management Systems, focusing on addressing performance challenges and optimizing queries. Committed to code quality through efficient testing, static analysis, and continuous integration. Adept at collaborating closely with clients to grasp business requirements and foster strong client relationships. Enthusiastic about active learning and knowledge-sharing in internal and external meetups. Dedicated to clean architecture principles and interested in Domain-Driven Design for building scalable, maintainable, and well-structured code. Ready to contribute problem-solving skills and commitment to excellence to innovative projects.

EDUCATION

Master of Computer Science, Jagiellonian University in Kraków   2021 - 2023
Department of Mathematics and Computer Science
Thesis title: Using machine learning techniques to answer questions about images
Grade: 4.87, **diploma with distinction**
In 2022 and 2023, I was awarded the **SciMat** scholarship for my academic achievements.
Bachelor of Computer Science, Jagiellonian University in Kraków   2018 - 2021
Department of Physics, Astronomy, and Applied Computer Science
Thesis title: Application of machine learning methods in image captioning
Grade: 4.7

SKILLS

Backend	Python, FastAPI, Flask, Django, Celery, Pytest, SQLAlchemy, Alembic.
Frontend	TypeScript, React.js, Next.js, Vue.js, Nuxt.js.
Databases	PostgreSQL, TimescaleDB, NoSQL.
Cloud	Docker, Google Cloud Platform, Azure.
Soft Skills	Communication, Attention to Detail, Teamwork
Languages	English - Advanced, Polish - Advanced, Ukrainian - Native

EXPERIENCE

Python Engineer   November 2024 - now
Accenture   *Kraków, Poland*

- Developed a chatbot backend utilizing Azure OpenAI, Azure AI Search, Azure Cosmos DB, and Azure Bot Service to enable retrieval-augmented generation across **thousands of documents**. Improved response times by **30%** through streaming response implementation, asynchronous operations optimization, and ASGI server tuning.

- Contributed to a question-answering module for structured data. Developed integration with the Power BI API and designed a robust predefined question-handling module, enhancing answer accuracy and user experience.

- Led and organized internal knowledge-sharing sessions, fostering team collaboration, continuous learning, and technical excellence.

Full-stack Python Web Developer   June 2021 - October 2024
Deployed   *Kraków, Poland*

- Designed the architecture and led the implementation of a highly efficient and accessible asynchronous REST API for an IoT application using FastAPI and SQLAlchemy, hosted on Google Cloud Run, and leveraging TimescaleDB for fast data ingestion and efficient data aggregation. The application managed approximately

500,000 requests daily, processing around **500 transactions per minute**, whereas keeping latency below **1500 milliseconds** at the 99th percentile.

- Leading database maintenance to ensure optimized performance including dealing with database tables containing more than **20 billion rows**. Implemented zero downtime deployment in the production environment.
- Implemented integrations with Cloud solutions such as Azure Blob Storage, Dynamics CRM, and Power Automate, streamlining data management processes and improving overall efficiency.
- Successfully implemented OAuth2 authentication with Azure Active Directory using MSAL in the Flask backend and Nuxt.js frontend, enhancing security and providing a smoother user experience and convergence.
- Implemented roles-based access system on top of Flask API, facilitating seamless onboarding of new users while limiting their access scopes.
- Engineered a scalable cursor-based pagination solution for efficient content retrieval via REST API, handling millions of rows seamlessly.
- Facilitated machine-to-machine communication by implementing mutual TLS authentication between machine clients and our backend.
- Led successful Python major version upgrades and major version upgrades of crucial libraries and frameworks, ensuring system compatibility and performance enhancements.
- Developed and maintained an E-commerce product with a GraphQL API built in Django and React frontend.

PROJECTS

Awesome FastAPI Projects. A search tool enabling developers to explore open-source projects utilizing FastAPI. Users can search based on project descriptions and third-party packages, providing real-world examples of technology integration. During my involvement, I contributed to an original repository with over 1k stars, fostering collaboration and enhancing my open-source development experience. [(Try it here)](#)

COBRA. COBRA is a collaborative project management tool that simplifies tracking project-related issues, time management, and work statuses. It is a full-stack project, utilizing Django REST framework, Celery, and Docker for the backend, and Next.js with MobX and Material UI for the frontend. [(Backend)](#) [(Frontend)](#)

Scraping service. The Scraping Service project, built with Django REST Framework, Celery, and Selenium hub, facilitates the creation of scheduled scrapers for designated resources, distributing the retrieved data to pre-configured integrations via web-hooks. [(Source code)](#)

EXTRA-CURRICULAR ACTIVITIES

- Actively engage in [internal](#) and [external](#) meetups and conferences.
- Delivered a [lecture](#) on PostgreSQL Replication at AGH University of Krakow [(content)](#).
- Contributed to academic open-source projects, including Machine Learning research and [software quality measurement](#).

LEADERSHIP

- Actively participate in hackathons; led a team to second place in the "Break The Fake" category at [HackYeah 2022](#) with our [AI-powered solution](#).