Kris Konina

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github

Profile

An accomplished IT professional with a track record of leading successful tech projects in a diverse range of contexts. Extensive experience in project management, software development, and IT consulting, with a distinct proficiency in Python, SaaS architecture, and data management.

My experience spans the deployment of modern DevOps, cloud technologies, and agile methodologies, with a vendor-agnostic approach to cloud solutions. Demonstrated leadership abilities in driving team performance, with strong skills in mentoring, communication, and stakeholder engagement.

I've co-founded and led tech startups, developed intricate IT systems for data analytics, and implemented stringent security measures to safeguard essential data. My contributions extend to open-source projects, and I've also published on topics like data management in structural biology.

As a leader, I am dedicated to promoting team performance, fostering communication, and engaging stakeholders effectively. I persistently pursue technical excellence, constant improvement, and the delivery of high-quality, scalable solutions that cater to the needs of businesses and users alike. With a readiness to embrace new challenges, I aim to apply my diverse skill set to create solutions that have lasting impact.

Work history

2019-12 - Current, Project Lead | IT Consultant, Organization for Security and Co-operation in Europe, Vienna

- Led the successful execution of the project as the project lead, overseeing all aspects from inception to completion, including hiring new developers, managing team resources, and fostering effective communication with stakeholders.
- Demonstrated strong leadership in managing the identification, protection, and strategic utilization of valuable data assets.
- Established and maintained user profiles and access levels, implementing robust security measures to safeguard critical data.

- Played a key role in the integration of Oracle's Taleo platform within the OSCE's ecosystem, contributing to the overall enhancement of the organization's recruitment processes.
- Proactively collected and addressed stakeholders' feedback, employing an iterative approach to continuously improve the website's look and feel based on their input.
- Conducted thorough testing and debugging of website updates, ensuring optimal functionality and user experience.

2022-06 - 2022-11, Project Lead, International Organization for Migration, Greece

- Led a team of Python developers in the development of a platform designed for evaluation and monitoring of internal projects, following the principles of agility and efficiency.
- Built and maintained a comprehensive system for data transformations, analysis and visualization using different data storage types and services (SQL and NoSQL).
- Implemented modern DevOps best practices, including automated CI/CD pipelines, ensuring successful project deployment on Kubernetes infrastructure bootstrapped with Terraform.
- Monitored performance through Grafana with Loki system integration, demonstrating strong experience in building B2B Saas software.

2019-09 - 2021-11, Co-founder, Laima, Warsaw, Poland

- Designed and implemented a robust, scalable SaaS architecture offering automated management services to outpatient clinics, using Python and AWS cloud services.
- Led the backend team in maintaining code quality, organization, and automation through the creation of a CI/CD pipeline with GitLab CI/CD, Terraform, and Kubernetes.
- Provided guidance and support to new developers, becoming the go-to person for all technical questions in the back-end.
- Demonstrated a start-up mindset by recognizing business opportunities and tailoring service offerings to address them.

2018-01 - 2019-08, Co-founder | Senior Lead Software Engineer, B2BON Sp. z o. o, Warsaw, Poland

- Led the design and implementation of a Python-based complex IT system that processed real-time sales data from retail stores across Poland, providing insights and analytics for FMCG customers. The system, deployed on the AWS cloud, handled large amounts of big data, allowing for comprehensive analysis and reporting.
- Supervised and mentored junior backend Python developers and interns, guiding them in their tasks and fostering their professional growth within the team.
- Ensured efficient and reliable software deployments and monitoring using a combination of AWS services, GitLab, and Sentry. Implemented cloud automation techniques, such as

infrastructure-as-code and automated scaling, to streamline operations and optimize system performance.

2015-07 - 2017-12, Project Manager | Software Developer | Business Communicator, 4bsystems Sp. z. o. o., Warsaw, Poland

- Designed, developed, and tested new Python-based web applications, producing specialized software solutions for corporate clients. Analyzed and successfully resolved technical issues in deployed projects, consistently producing high-quality, maintainable, and scalable code.
- Demonstrated expertise in leading the technical team, which encompassed the frontend team, database administrator, and external contractors, to achieve technical excellence and project success.
- Actively managed and fostered relationships with overseas clients, ensuring seamless communication and meeting their specific development requirements.
- Continuously identified areas of improvement to existing software, algorithms, and processes, driving enhancements and optimizing performance to deliver cutting-edge solutions.
- Employed a meticulous approach to crafting clean, readable, and highly scalable code, adhering to industry best practices.

2014-12 - 2015-06, IT Consultant, District of Lubliniec Office, Lubliniec, Poland

- Successfully designed and implemented a real-time road traffic data parsing project, showcasing an in-depth understanding of Python's intricacies and nuances.
- Leveraged OpenCV and scikit-learn to create and train a robust Machine Learning model for efficient vehicle count and recognition, highlighting expertise in utilizing advanced libraries for computer vision and machine learning tasks.
- Demonstrated experience in handling big data projects through the development and execution of the performant vehicle count and recognition system, leveraging scalable approaches and techniques.

2013-01 - 2014-11, Research Assistant, University Of Virginia, Charlottesville, USA

- Developed new software to catalogue and publicly display protein structures (LabDB), demonstrating solid experience with design and building advanced systems with Python.
- Maintained configuration of preexisting software applications, adhering to good software engineering practices.
- Acquired and processed real time data from X-ray crystallography measurements of protein samples.
- Wrote and developed software documentation.

- Communicated with protein structure depositors, incorporated their feedback in the developed products.

2010-01 - 2012-12, Full Stack Developer, Keos Media, Lubliniec, Poland

- Developed and tested a new full-stack Python-based software delivering basic operational functionalities for an outpatient clinic.
- Configured and managed web servers, ensuring the reliability and scalability of the application.

Open source contributions

- **Postschema** (github) (WIP)

  A custom web framework built on top of aiohttp, using PostgreSQL and Redis as core dependencies. The framework comes with an ORM that automatically translates models into views, providing a seamless development experience. Security is a key feature of the framework; it comes with plenty of security features out-of-the-box, including Role-Based Access Control (RBAC) for fine-grained access control. Additionally, Postschema is equipped with a plugin system that will allow developers to extend the functionality of the framework with ease.

Publications

- **State-of-the-Art Data Management: Improving the Reproducibility, Consistency, and Traceability of Structural Biology** (pubmed)

  LabDB as a comprehensive data management system designed for laboratories of various sizes to track and analyse experiments. It has the capability to harvest data from laboratory instruments and manual input, and can be used for biochemical, biophysical and crystallographic experiments. It has been used to manage data for over 1200 deposits to the Protein Data Bank, and provides features for data mining, inspecting potential sources of irreproducibility and warnings about incomplete and inconsistent experimental data.

- **Crystal structure of a GNAT superfamily phosphinothricin acetyltransferase** (pdb)

  Crystal structure of a GNAT superfamily phosphinothricin acetyltransferase (Pat) from Sinorhizobium meliloti in complex with AcCoA

Education

2007-10 - 2010-06

Bachelor of Science: Biotechnology

Medical University of Silesia - Katowice

2010-10 - 2012-10

Master of Science: Bioinformatics

Jagiellonian University - Krakow