Yauhen Yakimovich

Focused, committed

25+ years of software and platform development, leveraging profound technical knowledge, teamwork and startup leadership skills

Profile

Intelligent, balanced, result-oriented personality. Pragmatic and resourceful.

Yauhen is a seasoned software developer and engineer, boasting over 25 years of experience[1]. His career achievements include serving as the CTO of PriceHubble AG (which was acquired by SwissLife), where he and his team developed a cloud-based fintech/proptech SaaS using machine learning to forecast real estate prices. An important early stage in his career was his time at Rocket Internet, contributing to startups like Zalando and brands4friends in the e-commerce sector.

In addition to his startup experience, Yauhen worked at a research center at the University of Zurich, where he was instrumental in developing ScienceCloud (Openstack). There, he supported scientists from various departments, including Life Sciences and Astronomy, in explorative data mining projects involving computer vision, image processing, and high-performance computing technologies. He also engaged in sophisticated data analysis, including Big Data analytics, machine learning, and statistical modeling. Yauhen studied software engineering (Dipl. Eng., MSc. Eng.) and mathematics (Jacobs Bremen University).

Skills

Leadership, Corporate finance, Lean startup methods, Expertise in building teams as well as outsourcing, Team management, Product ownership, Agile (scrum, kanban+) processes
Cloud: Hands-on DevSecOps/SRE experience with building and operating production environments of large-scale systems with millions of users and/or Terabytes of data.
Programming: python, Javascript/Typescript, Solidity, Java, go, rust
Languages: English, German, Russian, Polish, Belarusian

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[1] Starting with a first paycheck in 1999 for revamping an old clipper- into a Delphi-programmed data management system for a national pension fund, he has been at various software development roles ever since, from QA to an architect and CTO

Education (MSc. Eng.)

2008 – 2009 Integrated Phd Program in Mathematics, Jacobs University, Bremen.

2004 – 2008 Graduate School, Belarusian State University of Informatics and Radioelectronics (BSUIR), Minsk. Faculty of Computer Networks and Systems, Department of Software and IT. (Avg: 4.5, where 5.0 is the best grading)

2004 – 2005 Master of Science in Engineering, BSUIR, Minsk. Faculty of Computer Networks and Systems, Department of Software and IT. Master ("Magister") Thesis: "Models, methods and software of Internet-based information system organization for data search and exchange" (Grade: 5.0, Avg: 4.72)

1999 – 2004 Dipl. Ing. in Software Development, BSUIR, Minsk. Faculty of Computer Networks and Systems. Department of Software and IT, Bank systems specialization. Diploma Thesis: "Content Management System" (Grade: 5.0, Avg: 4.57)

1988 – 1999 Gymnasium, Minsk

Most recent employment

| 2019 – current |
| Security Architect (DevOps), Swiss Re, Zurich |

Responsibilities: design and support of Cloud infrastructure for the "IETV" platform (aka "Olympus" or IFRS Delivery project) with focus on security and architecture aspects; Apply best DevSecOps automation practices for complex microservice event-driven architecture to enable a multi-billion-franc project, mission critical to the core of the Swiss Re business. **Advanced Continuous Integration Techniques**: Implemented and managed Terraform automation within CI pipelines to enable consistent and reliable environment provisioning, ensuring infrastructure as code practices are central to the deployment strategy. Enhanced CI pipelines to bootstrap microservices using Kubernetes init-containers, which dynamically distribute environment-specific configurations, thereby reducing manual configuration errors and speeding up deployment processes. **Microservice Security and Management**: Co-designed a secure microservice architecture, utilizing Managed-IDs to ensure each service securely accesses only the Azure resources it requires, enhancing the security posture significantly. Ensured all communication between Kafka and PostgreSQL is secured with mutual TLS (mTLS), safeguarding data in transit against interception and unauthorized access (data on rest as per requirement). **Sophisticated Data Handling and Operations**: Led the deployment of Azure Data Factory and Databricks from artifact feeds, which are meticulously managed to meet stringent security and compliance standards, enabling robust data integration and analytics capabilities. Integrated complex data workflows into the DevOps cycle, ensuring that data operations are both scalable and aligned with the security frameworks. **Release Management Strategy**: Co-developed and contributed to a release management strategy based on the Bill of Materials (BOM) concept, which meticulously tracks software components used in each release. This approach ensures transparency and compliance in the deployment process, crucial for business-critical applications. Streamlined release processes by aligning them with business requirements, focusing on critical gatekeeping to ensure that only fully vetted and compliant code is deployed into production environments. **Strategic Project Contributions**: Actively contributed to the strategic planning and high-level design of cloud architecture, ensuring robust scalability, fault tolerance, and security were foundational to the project's success. Played a key role in cross-functional teams to drive the adoption of best practices in DevSecOps, influencing significant improvements in project delivery and operational efficiency. **Communication:** Organized and led post-mortem operational sessions to identify root causes of system failures, enhancing system reliability through continuous learning and improvement. Developed essential technical documentation and facilitated cross-team communication. Also, conducted workshops and knowledge-sharing sessions to boost collective expertise in cloud solutions and security, promoting best practices across teams.

Tools: Azure, kubernetes, terraform, docker, flux, python, Java, Spring Boot, postgres, Kafka, Data Factory, Databricks, JIRA, Confluence, Managed-IDs

Multiple startups 2013 – 2019

2018 – 2019 CTO, co-founder, CREAG, Zug	2016 – 2018 CTO, PriceHubble.com, Zurich
- Implementation of the investhood.io prototype. Development of a strong backend (SaaS API) based on microservice architecture (Eureka/Netflix stack) with horizontal scalability. Development of microservice user authentication and authorization (uaa) management, integrated with angular front-end; - Working with clients and supporting CEO in business development and B2B deals; Support by the fundraising campaign for the company; - Conceptualization (64 pages of technical paper) and development of the Management and Investment Assistant prototype (MIA) - Supervision of the development teams of the website for the SwissRealCoin project and the Ethereum based smart contract - Complete revamp and fullstack development of the KYC-onboarding dashboard convertia.io; Whitelabeling, deployment and end-to-end support of the first B2B customers of the product. - Conceptualization and development of the security tokens protocol; Tools: python, Typescript, Solidity, Java, JHipster, OpenAPI, websockets, django, angular, ionic capacitor, UAA, kubic-ci, kubernetes, Google Cloud, Trello	Responsibilities: Delivery of the product with early MVP prototyping up to successful full scale service with multiple B2B clients (including big industry players as real-estate agencies, banks and insurance companies), introduction of agile (kanban and scrum) processes, setting up outsourcing software dev unit for fast product-to-market delivery (alpha version within first 2 month with full-product in 8 month); supervising a team of 5-9 people; technical and security expertise; overseeing architecture and integration of machine-learning data engineering into the SaaS; organizing and supervising devops by implementing continuous integration with deployment infrastructure into kubernetes; designing the backoffice for billing and user management. Tools: python, OpenAPI, scikitlearn, AngularJS, luigi, Docker, kubernetes, kong, django, Google Cloud, circleci, Trello

2013 – 2016 CTO, co-founder, QRTag.ch, Zurich
Responsibilities: Technical expertise; design and monitoring of business and marketing processes; design and implementation of the principal quality control algorithm, that allows to threshold graphical customized QR codes by computing the residual amount of the redundantly encoded information, management of small team (2-3) and outsourcing to external freelancers. Tools: Java, PHP, Javascript, Trello

Supercomputers, Cloud and BigData in University of Zurich 2011–2016

2011 – 2016
R&D software developer, University of Zurich

Responsibilities: IT position, including
- building OpenStack cloud, BigData storage solutions and other Science IT projects
(http://www.s3it.uzh.ch/);
- software development and research activities (http://www.imls.uzh.ch);
 - design and automation of large-scale data handling, incl. network and parallel storage systems;
 - workflow development of high-throughput image processing and analyses;
 - organization of virtualization solutions, including cloud-based, VMWare ESXi and high-end KVM-based
(also see https://github.com/ewiger/picostack);
 - parallel computing, incl. High-Throughput Computing (HTC) and High-Performance Computing (HPC)
using OpenStack cloud and ETHZ Brutus cluster environment;
 - contribution and testing of cloud deployment and workflow management tools like elasticluster
(http://gc3-uzh-ch.github.io/elasticluster/) and GC3Pie (https://gc3pie.readthedocs.org/en/latest/);
 - development and publication of novel algorithms, statistical and mathematical techniques.

Tools: python, bash, Java, Javascript, PHP, C++, MATLAB, R, Julia, XFS, glusterfs, Linux, KVM, HPC, HTC,
OpenStack, Google Compute Engine, Platform LSF, SLURM, CellProfiler, Machine Learning, Computer vision
(image bioinformatics)

E-Commerce in Germany 2009 - 2011

2009 – 2011
Senior software developer, symmetrics gmbh, Hannover

Responsibilities: Among others employment related activities included

 - taking part in the development and release of all company's major projects including German e-commerce
market leader "Zalando-lounge" shopping system with millions of daily page impressions.
 - co-design and development of a middleware framework, called IMEX, written in python with the purpose
of data translation following the pipeline design principle. Architecture targets import/export solutions and
features intentional simplicity, scalability and flexibility.
- code readability and complexity redistribution are dictated within component-based and convention-driven
development.
- design of the robust file chunk transfer protocol (over-HTTP); implementation of both Java-based server and
(applet) client sides.
- contribution to more than a hundred of Magento system modules.

Tools: python, Java, C, PHP, Javascript, Action Script, UML, Magento, E-Commerce, JSON, REST, XML,
XSL, DTD, HTML5, SOAP, Web-services, Linux, Cloud, Amazon, Open Source, Agile, etc.

2009
Software developer, brands4friends GmbH, Berlin

Responsibilities: Magento development, including "Stock-mutation" module

Tools: PHP, Javascript, Magento, E-Commerce

Architect role by 2008

2008
System Architect, Generation P Ltd, Minsk

Responsibilities: development, architecture and algorithm design, documentation and UML design

Tools: Business Process Modeling (BPML), JBPL, Eclipse, CVS, Java 1.6, JSP, Java Faces, Hibernate, Sprint, MySQL, JUnit, XML, XSL, SOA, Service Bus Messaging

Previous hackathons, courses and honors

2016, March: SIX hackathon - Fintech, Zurich

2015, October: www.hackzurich.com - biggest hackathon in europe / team finalist with #RockMyLight

2014, December: www.venturelab.ch - fast track for startups, St. Gallen (Certificate)

2014, October: www.hackzurich.com - biggest hackathon in europe

2009, January - MPI/OpenMP workshop for supercomputers, Bremen (Certificate)

2008, January: TOEFL ibt

2004, March: Certificate of Honorary Achievement in Academic Excellence upon Graduation from University - Belarusian State University of Informatics and Radioelectronics, Minsk

2003, November: ZMP - Goethe-Institut e.V.Goethe-Institut e.V. \\ Credential ID 021623

Various

- Linkedin: https://www.linkedin.com/in/yyakimovich/
- GitHub: https://github.com/ewiger // https://github.com/ewiger/jsmodem
- Homepage: https://yauhen.yakimovich.info/cv/
- Diplomas: https://yauhen.yakimovich.info/cv/yy-diplomas.pdf (>11Mb)