Zakhar Shymanchyk

Lead Software Engineer

Summary

Full-stack Software Engineer with 10+ years of experience using technology as a tool to solve complex business problems. Proficient in Python, TypeScript, FastAPI, NuxtJS and LLM with a strong ability to collaborate across teams to ensure seamless alignment between technical and business goals.

Skills & Expertise

Technical Skills

Python · JavaScript · TypeScript · PHP · Bash · FastAPI · Django · Flask · Laravel · SQLAlchemy · Celery · Vue.js · Nuxt · React · PWA · PostgreSQL · MySQL · Redis · Weaviate · InfluxDB · RabbitMQ · AWS · GCP · Docker · K8s · GitLab CI · LLM · RAG · OpenCV

Leadership & Management

- Led engineering teams, established Agile processes, hiring and team development
- CTO experience: technical strategy, team building, investor pitching
- System architecture, algorithms, data structures optimization
- Healthcare: HIPAA compliance, Medical device development (IEC 62304)

Languages: English (C1) · Belarusian (N) · Russian (N) · Polish (A2)

Work Experience

Senior AI Engineer @ Freelance

Jun 2024 – Nov 2024

LLM-based chat bot with tool calling capabilities

- Implemented and deployed production chat bot with external service integration
- Optimized API costs through few-shot examples and model fine-tuning

Python · Flask · Google Cloud · Railway · GitLab-CI

Senior AI Engineer @ Enneo.ai

Oct 2023 – Mar 2024

Customer service AI support system | Team: 8 devs

- Improved service stability through refactoring and CI automation
- Built real-time phone call handling service
- Implemented RAG-based LLM chat architecture with tool calling
- Developed LLM-based testing framework

Python · FastAPI · Flask · Weaviate · Postgres · Docker · GitLab-CI · PHP

Lead Software Engineer @ Fortegroup

May 2023 – Sep 2023

Fin-tech investment platform | Team: 4 members

- Optimized critical endpoints performance by 5-10%
- Introduced automated testing and CI best practices
- Led technical analysis and improvement initiatives
- Educated developers and "gradually enforced" best practices

Python Django MySQL Redis GitLab-CI Docker

Lead Full Stack Software Engineer @ Easee

May 2020 – August 2022

Online Eye Test as a Software Medical Device | Team: 10 people

- Established process for Engineering interviewing and hiring, educated other engineers to follow the process.
- Personal development plan, 1:1 and mentoring sessions with reportee.
- Shared knowledge with other team members via: creating wiki-pages, pair programming, code-review, organizing knowledge sharing sessions both internally and externally, invited speakers and trainers.
- Played role of the scrum master.
- Provided Tech-support for the partners and professional-users.
- Learned regulations in medical domain and participated in adjusting processes for compliance in software development and release process. IEC 62304, ISO 14971, ISO 13485, IEC 62366.
- Configured up-time monitoring of the services.
- Analyzed, prepared and implemented HIPAA requirements for the infrastructure migration, it includes configuration of services, changing pricing plans, signing BAA.
- Migrated applications and CI from Heroku to AWS services.
- Migrated from managed to self-hosted Sentry for HIPAA compliance.
- Introduced best-practices and managed AWS services/permissions and educated other engineers.

VueJS Python Flask PHP Laravel Docker AWS GitLab-CI

Senior/Lead Software Engineer @ EPAM Systems

Mar-2018 – May 2020 show more

Python Axiros ACS MySQL Git Jira Trello

Lead Software Engineer & CTO @ Smartsub Inc

Sep 2018 – Mar 2019 show more

Python Django React Redux PostgreSQL Docker k8s GitLab-CI

Lead Software Engineer & CTO @ Smartsub Inc

Dec 2016 – Jan 2018 show more

Python Django wit.ai MicrosoftBotFramework Celery PostgreSQL RabbitMQ Docker GitLab-CI

Senior/Lead Software Developer @ EPAM Systems

Jun-2017 – Nov-2017 show more

Python Django DRF Celery PostgreSQL Redis RabbitMQ AWS S3 Docker Jenkins

Senior Software Developer @ EPAM Systems

Jul–2017 – Sep–2017 show more

Python Django JQuery Django Rest Framework uWSGI PyGame SQLite Docker Raspberry Pi

Software Engineer @ EPAM Systems

Mar–2017 – Mar–2017 show more

Python VmWare WSXi vSphere TestComplete Git

Software Engineer @ EPAM Systems

Feb–2017 – Mar–2017 show more

Python TCP sockets Git

Software Engineer @ EPAM Systems

Jan–2017 – Feb–2017 show more

Python Django Celery PostgreSQL Redis RabbitMQ Docker Git

Software Engineer @ EPAM Systems

Nov–2016 – Jan–2017 show more

PostgreSQL InfluxDB Git Python QT Django Docker Docker-compose Docker-registry Sockets Nginx

Had Fun @ Personal project

Feb–2016 – Dec–2019 show more

CPython Qt numpy GTK Jython IronPython WPF Delphi Java

Python Software Engineer @ Freelance

Jun–2016 – Jul–2016 show more

MySQL Git Python Django Django-channels

Software Engineer @ Exposit

Apr–2016 – May–2016 show more

MySQL Git Jenkins PHP symphony 2

Software Engineer @ Exposit

Mar–2016 – Apr–2016 show more

JavaScript WebRTC Mustashe.js Jenkins Java Play Framework MySQL Git

Software Engineer @ Exposit

Sep–2015 – Mar–2016 show more

Mysql Git Jira Jenkins Python Django xcrawler Fabric

Software Engineer @ Exposit

Oct–2014 – Sep–2015 show more

Java JavaScript ActionScript J2EE Maven Spring Hibernate Tomcat Jetty XML Webservices Oracle MSSQL Git Red5 Server Active MQ Adobe Flex BlazeDS AIR Adobe Indesign Server Quark Xpress Server

Education

Master of Science in Software Engineering at Yanka Kupala State University of Grodno 2012 – 2017

Certifications & Contributions

Google Cloud Certified

Professional Cloud Architect
March 2020 – March 2022

Open Source Contributions

- Django: Database bug fix
- Duckling: Russian language support for wit.ai