





Kyryll Puchkov

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EXPERIENCE

ELCA | SOFTWARE DEVELOPER

May 2023 – Present

- Streamlined the software release process by implementing robust *CI/CD pipelines* using *Jenkins* and *Octopus*. Automated build, test, and deployment processes, resulting in a **25% reduction in release cycle time**.
- **Improved test execution efficiency by 30%** through the implementation of *Selenium*. *Sonar*'s code quality analysis led to a **10% reduction in code defects**, resulting in improved software reliability. *Citrix* ensured secure remote access, **reducing troubleshooting time by 15%**.
- Achieved a **25% reduction in system downtime** by proactively identifying and addressing issues through the centralized monitoring and logging capabilities of the *ElasticSearch* stack. Custom dashboards and alerts helped **decrease mean time to resolution by 20%**.

CONSTRUCTOR TECH | MACHINE LEARNING ENGINEER

January 2023 – July 2023

- **Master thesis:** AI-Driven Analysis of Calcularis Student User Data
- Conducted clustering analysis on low-performing student data, **identifying distinct clusters** indicating different engagement levels and potential challenges.
- Analysed the impact of learning time, achieved **90% F1 score** after **50 minutes** of training, highlighting the model's ability to differentiate between students needing extra attention and those with lack of effort as a factor.

BANKING INDUSTRY | SITE RELIABILITY ENGINEER

September 2021 – June 2022

- Developed a *microservice* infrastructure using a custom *pipeline* framework and automated testing service, achieving a **20% reduction in deployment time**.
- Collaborated with the SRE team, resulting in a **20% decrease in system downtime** and a **30% reduction in incidents** through improved server reliability and code reviews of legacy code.
- By eliminating side effects and improving reliability and performance using *Scala pure functions*, led to a **25% increase in system stability** and **efficiency**.

ACRONIS | R&D ENGINEER

September 2020 – August 2021

- Theoretically described and implemented the *garbage collection* algorithm in *search engines*, using *bitmap*-indexes and *LSM* trees written in *Golang*.
- Achieved a **1.5x reduction in search time** and **improved system performance by up to 70%**. The garbage collection process operates approximately **10⁵ times faster** than original algorithm, effectively optimising the overall search engine performance.

PROJECTS

SMART CITY SCHAFFHAUSEN | PYTHON

2022

- Developed and implemented *predictive models* and dashboards to monitor progress, provide updates to stakeholders, and **deliver recommendations to users**.

SKILLS

PROGRAMMING

Proficient:

Scala • Python • SQL • C++

Experienced:

Golang • \LaTeX • Java • Groovy

Familiar:

C • Assembly

LANGUAGES

English - C2 • German - B2

Ukrainian - native

TOOLS/PLATFORMS

Git • Jenkins • Octopus

Gitlab CI • Docker • Jira

ElasticSearch

QUANTITATIVE SKILLS

Linear algebra • Algorithms •

Data Science • Optimisation •

Machine Learning

EDUCATION

SCHAFFHAUSEN INSTITUTE OF TECHNOLOGY

MASTER'S IN COMPUTER SCIENCE

AND SOFTWARE ENGINEERING

Sep 2021 – Jun 2023 | Schaffhausen, CH

Cum. GPA: 5.8 / 6.0

MIPT, PHYSTECH

BACHELOR'S IN APPLIED

MATHEMATICS AND PHYSICS

Sep 2017 – Aug 2021 | Moscow, RU

Cum. GPA: 4.9 / 5.0


REFERENCES

Manuel Oriol,

Professor of Software


Engineering, SIT


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Lesia Nünlist, Founder,

“Zurich helps Ukraine”

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