Kyryll Puchkov

Software Engineer | Zurich, Switzerland | S permit

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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 ***Selenoid***. ***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%***.

TINKOFF | Software developer

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 | Research Intern

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 10^5 ***times faster*** than original algorithm, effectively optimising the overall search engine performance.

Projects

AI-DRIVEN ANALYSIS OF CALCULARIS STUDENT USER DATA | Python

2023

- Conducted clustering analysis on low-performing student data, ***identifying distinct clusters*** indicating different engagement levels and potential challenges.
- Achieved ***90% F1 score*** by predicting low-performing student clusters.
- 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.

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

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