

# Anna Lorents

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## Education

ITMO University, Bachelor of Science in Applied Mathematics and Computer Science Sept 2020 – June 2024

- **Courses:** Operating Systems, Data Structures and Algorithms, Web Development, Database Fundamentals, Programming in Java

## Experience

Backend Developer, VK, VK Analytics and MyTracker March 2023 – Current

- **VK ID Authorization Setup:**
  - Urgent migration from internal service to VK ID.
  - Developed VK ID-based registration and migrated user profiles.
  - *Result: 3,500 new registrations/month, completed on time.*
  - **Tech Stack:** Go, VK ID SDK, PostgreSQL, *Legacy: PHP.*
- **Campaign Management Optimization:**
  - Explored various optimization strategies and implemented campaign archiving for performance improvements.
  - Reduced page load time from 10 seconds to 12 milliseconds.
  - Significantly improved performance for users with large datasets.
  - **Tech Stack:** Go, SQL, Python.
- **Search Engine Optimization:**
  - Analyzed and improved routing architecture.
  - Boosted indexing speed by 19% and organic traffic by 15%.
  - Developed automatic URL-based language detection and optimized public domain link generation.
  - **Tech Stack:** Go, *Legacy: PHP.*
- **Personalized Offers API Development:**
  - Set up data synchronization for A/B test settings between product and ML teams.
  - Automated synchronization, monitoring, alerting, and added manual synchronization options.
  - Developed a feature for duplicating user segments and recommendations.
  - **Tech Stack:** Go, Clickhouse, Kubernetes, Grafana.

## Projects

Service for Processing, Preprocessing, and Analyzing Thermomagnetic Measurement Data  LorentsAn/tma-frequency

*Technologies: Python, Docker, Poetry, Solara, SciPy, PostgreSQL*

- Designed and developed a service for acquiring, processing, and analyzing thermomagnetic measurement data. The processing and analysis included methods for data interpolation and extrapolation, outlier detection and removal, as well as automatic pre-calculation of various physical quantities based on analytical data.

## Skills Summary

- **Programming Languages:** Go, Python, Java, PHP; **Version Control:** Git, GitFlow;
- **Containers:** Docker, Kubernetes, CI/CD; **Databases:** MySQL, Clickhouse, Tarantool, PostgreSQL;
- **API Development:** REST, GraphQL

## References

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Available upon request. You may contact the following individuals for recommendations:

- **Lead:** Artashes Khatlamadzhiyan, Backend Team Lead of Product Development Group at VK Analytics.  
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- **Head of Department:** Ilyas Guseynov, Head of Product Development Department  
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