

# Marsel Akhmetov

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## EDUCATION

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- **ITMO University** St. Petersburg, Russia  
*Master's degree in Computer Science* *Sep 2020 - current*  
*Courses: Operating Systems, Programming Languages(Java, C/C++), Data Structures and Algorithms, Web Development, Data Analysis, Probability Theory and Mathematical Statistics*

## SKILLS SUMMARY

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- **Languages:** Python, Java, PHP, C/C++, SQL, Bash
- **Tools:** Git, Docker, Linux, LaTeX
- **Knowledge:** Data Structures and Algorithms, Data Analysis, Probability Theory and Mathematical Statistics, OOP

## PROJECTS

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- **VK Bot on PHP** PHP, Python, VK API, PostgreSQL, Docker, Linux, Nginx  
*<https://github.com/mokaruuns/bot-recipes>* *Dec 2022*
  - **Collecting data:** Parse site and get all recipes from it using Python and BeautifulSoup.
  - **Creating database architecture:** Create database architecture using PostgreSQL for storing recipes and users data. Create tables and relations between them for fast and easy access to data.
  - **Development:** Develop bot using PHP and VK API. Bot can send recipes to users by different parameters.
  - **Deployment:** Deploy bot on server using Docker and Nginx.
- **Research gradient descent algorithms** Python, Jupyter Notebook, Numpy, Pandas, Matplotlib  
*<https://github.com/mokaruuns/optimization>* *Sep 2022*
  - **Implementation:** Implement Gradient Descent, Stochastic Gradient Descent and Mini-Batch Gradient Descent algorithms using Python and Numpy.
  - **Testing and comparing:** Test and compare algorithms using different datasets.
  - **Visualization:** Visualize results using Matplotlib.
- **Regex parser** Java, Graphviz  
*<https://github.com/mokaruuns/parsing/tree/main/recursive-parsing>* *Sep 2022*
  - **Creating grammar:** Create LL(1) grammar for regular expressions.
  - **Implementation:** Implement a parser for a regular expression by grammar using Java.
  - **Unit testing:** Test a parser using JUnit.
  - **Visualization:** Automatically generate graphviz diagram for expressions.

## SUMMARY

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I'm a student of the third year of the master's program in Computer Science at ITMO University. I'm looking for an internship in the field of data science or backend development.