

# Alena Alferova

02230 Espoo, Finland | (+358) 414 818944

[alyona02121999@gmail.com](mailto:alyona02121999@gmail.com) | [linkedin.com/in/alena-alferova](https://www.linkedin.com/in/alena-alferova) | [github.com/AlfyorovaAlyona](https://github.com/AlfyorovaAlyona)

I am a software developer interested in bioinformatics and data analysis. My expertise includes but is not limited to web/desktop applications full-stack development for chemical and biomedical engineering domains. Currently, I am working on a Master's thesis at Metso:Outotec and looking for a full-time position to join after my graduation.

## SKILLS

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**Programming Languages:** C#, Java, Python, JavaScript, Typescript, C/C++

**Tools & Frameworks:** .NET framework, ASP.NET, Maven, SpringBoot, SQLite, PostgreSQL, Git, Bash

## EXPERIENCE

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**Metso:Outotec, Espoo - Software Engineer/Specialist** June 2022 - Present

- Participated in maintenance and high priority feature development of "HSC Chemistry" software platform for metallurgical processes modeling using C# and .NET framework.
- As a part of my Master's thesis work, I implemented a modified quasichemical model for binary case that increased the accuracy of liquid metals mixing simulation.

**Molecular Nanoengineering Lab, Aalto University, Espoo - Research Assistant** Nov 2021 - May 2022

- Processed with a computer cluster 200+GB of raw micrographs (images) obtained by Transmission Electron Microscope to reconstruct a 3D model of DNA origami structures that were synthesized in a wet lab.
- Developed micrographs processing pipeline using bash scripting that eliminated 10+ hours of manual work.

**Milandr, Moscow - Full-Stack Developer** July 2019 - June 2021

- Developed the algorithmic optimization feature with Java+SpringBoot using graph theory for meters data collection module of microservices-based REST API application.
- Completed migration of the main frontend code from AngularJX to Angular 2 that led to an increase of users by 20% and improved user-friendliness of the web-application according to customers' feedback.

**Deutsche Bank Technology Center, Moscow - DevOps trainee** Summer 2020

- Participated in maintenance and feature development of Autobahn FX platform using Java and Spring Boot.
- Developed a Jenkins pipeline for automated pull requests merging using Groovy that eliminated the manual merging and increased deployment efficiency.
- Designed and developed behavior-driven automated UI tests with Cucumber.

## EDUCATION

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**Aalto University, Finland - Master's degree** Aug 2021 - Present

Major in Bioinformatics, Life Science Technologies (Department of Computer Science)

Achievements: Awarded with an Aalto University Dean's Scholarship for excellent performance

**CGPA:** 4.5/5.0

**Moscow Institute of Physics and Technology (MIPT), Russia - Bachelor's degree** Sep 2017 - July 2021

Major in Applied Mathematics and Physics (Department of Radio Engineering and Computer Science)

Achievements: Awarded with an excellence scholarship for academic performance

**CGPA:** 4.8/5.0

## LANGUAGES

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**English** - C1 (full work proficiency), **Russian** - native, **Finnish** - beginner