



# KATARZYNA KOLANEK

@ katarzyna.kolanek@gmail.com

liltw

liltw

+48 728 378 837

0000-0002-6429-8753

Mokotów, Warsaw, POLAND

katarzyna-kolanek-02b299132

## EXPERIENCE

### Intelliseq

Feb 2016 – Apr 2020

#### IntelliseqFlow

##### Lead Bioinformatician

Feb 2019 – Apr 2020

„Software as a service platform for WGS or WES data analysis (from raw data to automatic and reports with clinical insights)“

- designed the core architecture of bioinformatic component of IntelliseqFlow platform together with IT team and other bioinformaticians
- supervised the implementation of bioinformatic pipelines and tools into the IntelliseqFlow platform
- trained and supervised interns

### PGx+

##### Bioinformatics Scientist

Oct 2019 – Apr 2020

„Development of the system for pharmacological interpretation of the human genome“ - project realized in cooperation with Polish Academy of Sciences, Institute of Pharmacology

- developed component for IntelliseqFlow platform that generates synthetic NGS reads and simulates various types of genetics variants, with emphasis on pharmacogenes

### GeneTraps

##### Lead Bioinformatician

Feb 2019 – Dec 2019

##### Mid Bioinformatician

Feb 2017 – Dec 2019

##### Junior Bioinformatician

Feb 2016 – Jan 2017

„Genome sequencing interpretation system dedicated to precision medicine“

- developed full set of bioinformatic pipelines and tools necessary to run automated analysis of human exome NGS data, from raw data to clinical report, to facilitate rare diseases molecular diagnosis
- conducted numerous NGS data analyses for health-care and research institutions
- trained and supervised interns

### MOBIGEN

##### Junior Java Developer

Jan 2019 – Dec 2019

„Direct-to-consumer genome data service and client applications“

- developed java module for MyTraits Sport mobile app , that translates raw genetics results from sequencing provider to user reports, using database of rules and possible interpretations

## EDUCATION

### Master's Degree in Mathematics, Jagiellonian University 2013 – 2015

🎓 Thesis: „Application of Bernstein's inequality in learning theory“

### Bachelor's Degree in Mathematics, Jagiellonian University 2009 – 2013

## BIO

Mathematics graduate that spent over 4 years working in bioinformatics, now wanting to advance in programming and software development.

Looking for **Python developer** position.

## TECHNICAL SKILLS

Python R Java (junior) JS

Linux git Docker Flask AWS

NGS toolbox (GATK, IGV, samtools, etc.)

rare diseases WDL + Cromwell

NGS databases/resources genomics

## KEEN TO LEARN MORE

Advanced Python Machine learning

Frontend Development (Vue/React)

Databases (PostgreSQL/MongoDB/Redis)

DevOps

## OTHER

- represented Intelliseq at „Festival of Genomics“ in London (2020)
- 2nd place with the team in bioinformatic hackathon „BioHack - Blast The System 2018“
- represented Intelliseq at „American Society of Human Genetics Annual Meeting“ (ASHG) 2017 in Orlando

## PUBLICATIONS

### Journal Articles

- Skoczen, S. et al. (2019). "Genetic profile and clinical implications of hepatoblastoma and neuroblastoma coexistence in a child". In: *Frontiers in Oncology* 9.APR.

## LANGUAGES

Polish: Native | English: Fluent | Russian: Basic