



KATARZYNA KOLANEK

@ katarzyna.kolanek@gmail.com

+48 728 378 837

Mokotów, Warsaw, POLAND

lltw

lltw

0000-0002-6429-8753

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

MOBIGHEN

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