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**

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 interpratiations**

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 spend 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