
The company

GATHER Foundation is Global Alliance Towards Harmonized E-health Records for Precision Medicine in Neurodevelopmental Disorders (NDDs). As a recently established initiative, GATHER Foundation aims to promote and support the generation of minimum requirement frameworks for the curation and collection of harmonized clinical, genetic and molecular data in the field of NDDs.

One of the major challenges of this harmonization process is that there are currently no clear standards regarding clinical data collection for NDD patients. Our ultimate goal at GATHER Foundation is to instate an era of precision medicine for patients with neurodevelopmental disorders (NDDs). GATHER Foundation aims to create a strategic, non-for-profit point of contact to facilitate data sharing across academic and clinical centers.

HEALTH DATA ENGINEER

PERMANENT POSITION – 100 % - WORLD TRADE CENTER, BARCELONA

The role

The health data architect will work closely with the other members of the team and contribute to the design, implementation and maintenance of the data warehouses and web-based visualization and analysis platforms. The platforms provide easy-to-use interfaces to the clinical and genetic data and aim to facilitate systems biology, machine learning & statistical modeling to improve clinical characterization of patients with neurodevelopmental disorders (NDDs). The candidate will be part of a team that builds and optimizes web-based analysis platforms that integrate, summarize and visualize large scale interconnected biomedical and clinical data.

Your responsibilities

- Processing large scale biomedical and clinical data within the context of ongoing computational systems biology projects; ranging from implementing and running Python ETL pipelines for heterogenous health data, to optimizing complex database queries and structures in PostgreSQL
- Designing and implementing ETL data ingestion pipelines using relational databases and Rest APIs
- Monitoring and ensuring the reproducibility of the pipelines running locally and, on the cloud,
- Database management using SQL or NoSQL (such as PostgreSQL, MySQL, MongoDB or equivalent)
- Integration of clinical data analysis pipelines.
- Web programming and implementation of RESTful APIs (such as Node, Django or similar) is a plus

Your profile

- Bachelor's degree in Computer Science, Computer Engineering, Information Technology, or a related field (or equivalent – through a combination of education and work experience)
- Proficient coding skills in Python, with coding skills in R and/or Java being a plus
- Experience in OOP, CI/CD, TDD as well as demonstrable clean coding skills
- Previous experience in using Linux, shell scripting, Git(Lab), Docker
- Cloud computing (AWS preferred, AWS Aurora, Redshift, ElasticBeanstalk, Data Sync)
- Experience writing ETL pipelines (Hadoop / Spark / AWS Glue / AWS Batch)
- Experience in design and maintenance of databases and data warehouses in PostgreSQL
- Knowledge on orchestration tools (Airflow or equivalent)

- Knowledge on medical ontologies and vocabularies
- Experience on backend development (Django and/or NodeJS) is a plus
- Experience on Nextflow (both on-premises and cloud) is a plus
- Previous experience on Kubernetes, Jenkins, Travis, Jira is a plus
- Experience with machine learning, text mining and NLP is a plus
- Strong interpersonal, communication, presentation, reporting skills
- Strong attention to detail and organizational skills
- Good verbal and written communication skills in English
- A high comfort level working in a high paced start-up environment, where a pragmatic, resourceful, well organized, and effective approach is required with limited resources
- A passionate, energetic, and enthusiastic personality that will ensure commitment to the company and its vision.

GATHER promotes diversity, equal opportunity and inclusion. Female, minority and candidates with disabilities are strongly encouraged to apply.

Please send your CV to project.manager@gatherfoundation.ch