

TANIYA PAL

CONTACT



Kolkata, West Bengal, India



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SKILLS

Technical Skills:

- Python
- Docker
- SQL
- Git
- Grafana
- Prometheus
- Agile methodologies
- Continuous Integration
- Debugging
- Code Review
- Software development

General Skills:

- Communication Skill
- Presentation Skill
- Team-working Skill

REFERENCES

Laura Shemilt: laura.shemilt@rfi.ac.uk

Alex Lubbock: alex.lubbock@rfi.ac.uk

ADDITIONAL INFORMATION

LinkedIn profile URL:

<https://www.linkedin.com/in/taniya-pal/>

A software development enthusiast having experience in software development in life science and healthcare field. **Technical skills include Python, Docker, Grafana, SQL, Continuous Integration using Git, Software Development in an Agile environment.** Recent graduate of master's degree in applied bioinformatics and previously graduated with bachelor's degree in biotechnology. Self-motivated to work towards delivering best performance and excel in her career.

EXPERIENCE

January 2023 - June 2023

Research Software Associate *Rosalind Franklin Institute*,
Oxfordshire, United Kingdom

Was involved in development of software using Python programming language and maintaining the data infrastructure of the Institute.

- Developed an exporter in Python programming language which queries a MongoDB (NoSQL) database of the institute to scrape metrics about size, number of datasets, files of each PI, member of the Institute.

Skills used: Software Development using Python, Continuous Integration using Git, Debugging, NoSQL, Grafana, Prometheus, Writing software documentation

- Implemented Grafana Dashboard for maintenance purposes of VMs which included monitoring of GPU and CPU utilization of Virtual Machines.

Skills used: Grafana

- Performed Database Migration from an old database backend to a new backend and generated a report about whether the Database Migration was successful.

Skills used: Bash shell scripting, Python programming, NoSQL

- Developed unit tests for an app based on Django REST framework.
- Skills used:** Unit testing, Python programming language, REST API (Django)

EDUCATION

Sep 2023-Present

Software Development Master's Program, Learnbay, Kolkata, India

Coursework included:

- Data Structured and Algorithms
- CS Fundamentals
- System Design

September 2021 - September 2022
Master of Science Applied Bioinformatics,
Cranfield University, Cranfield, United Kingdom

Coursework included:

- **Data Analysis in R programming Language**
- **Python programming language**
- **Group Project titled “R-package for assessment of ER & HER2 pathways activity in breast cancer transcriptomic datasets”**

The project involved development of a R package to analyze breast cancer transcriptomics datasets from a patient to identify which signaling pathways in the patient are responsible to active progression of cancer, or inactive progression, which would help clinicians prescribe medicines and decide a treatment plan accordingly for the patient

Link to Group project:

<https://github.com/ozlemkaradeniz/PathAnalyser.git>

Skills used: Software Development using R programming language, Continuous Integration using Git, Presentation skill, Teamworking skill

July 2016 - May 2020

Bachelor of Technology Biotechnology

SRM Institute of Science and Technology, Chennai, India

- Demonstrated team working and communication skill on successfully completing final year project within deadline
- Participated in volunteering for events organized by the University.

CERTIFICATIONS

HackerRank Python Skill Assessment

- Solved two Python programming challenges within a time limit of 2 hours.

Link to the certificate:

<https://www.hackerrank.com/certificates/246ffddfc646>
