Roberto Preste
Senior Software Engineer

Technology enthusiast, interested in modern and efficient ways to solve problems through programming.

roberto.preste@gmail.com

+44 (0)7732 627958

Cambridge, UK / Rome, Italy

robertopreste.com

WORK EXPERIENCE

Senior Software Engineer
Illumina

10/2021 - Present — *Cambridge, UK*

Achievements/Tasks

- Develop, test and maintain full-stack applications and (micro)services within ISO13485 accredited environments. (Python, Flask, SQLAlchemy, Kafka, Angular)
- Implement and maintain CI/CD and cloud infrastructure. (AWS, Kubernetes, Helm, Terraform, Docker)
- Provide technical assistance to escalated operational issues.
- Provide technical training to interns and internal non-software teams.

Scientific Software Developer
Enthought

10/2019 - 10/2021 — *Cambridge, UK*

Achievements/Tasks

- Develop scientific and technical applications involving GUIs, 2D and 3D visualisations, workflow and pipeline architecture, and numerical algorithms. (Python, Numpy, Pandas, Scipy, Seaborn)
- Develop Python-based desktop and web applications for scientific data management in life sciences and physics domains. (Python Traits and Traits UI)
- Develop and share best practices for software design within the internal UI/UX research team.

Bioinformatician
ELIXIR Italy

05/2019 - 06/2019 — *Bari, IT*

Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari

Achievements/Tasks

- Project "Implementation of HmtPhenome"

Bioinformatician
ELIXIR Italy

05/2018 - 06/2018 — *Bari, IT*

Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies, National Research Council

Achievements/Tasks

- Project "Integration of the ELIXIR-IIB HmtDB resource into RD-Connect"
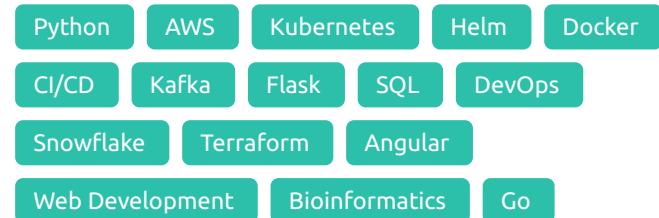
Web Developer
ELIXIR Hub

03/2016 - 09/2016 — *Cambridge, UK*

European Bioinformatics Institute (EBI-EMBL)

Achievements/Tasks

- Implementation of the Bioschemas website (https://bioschemas.org) (HTML, CSS, Javascript)

SKILLS

Python · AWS · Kubernetes · Helm · Docker · CI/CD · Kafka · Flask · SQL · DevOps · Snowflake · Terraform · Angular · Web Development · Bioinformatics · Go

CERTIFICATES

AWS Certified Cloud Practitioner (07/2025)

Security engineering on AWS (10/2025)

Running containers on Amazon EKS (03/2025)

EF SET English Certificate - C2 Proficient (02/2019)

PROJECTS

mitoviz
- Python package to plot variants on the human mitochondrial genome (https://github.com/robertopreste/mitoviz)

mitovizR
- R package to plot variants on the human mitochondrial genome (https://github.com/robertopreste/mitovizR)

EDUCATION

PhD - Functional and Applied Genomics and Proteomics
University of Bari "Aldo Moro"

11/2016 - 03/2020 — *Bari, IT*

Courses

- Thesis: "Bioinformatics software and tools for Big Data in mitochondrial genomics"
- Develop and maintain three databases and related web interfaces to retrieve and analyse human mitochondrial genomes, variants and phenotypes

Master's Degree - Cellular and Molecular Biology
University of Bari "Aldo Moro"

09/2013 - 09/2015

Bachelor's Degree - Medical and Pharmaceutical Biotechnology
University of Bari "Aldo Moro"

09/2009 - 07/2013