

Roberto Preste

Senior Software Engineer

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

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Cambridge, UK

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github.com/robertopreste

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 Project "Implementation of HmtPhenome"

05/2019 - 06/2019

Bari, IT

Department of Biosciences, Biotechnologies and Biopharmaceutics,
University of Bari

Bioinformatician

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

05/2018 - 06/2018

Bari, IT

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

Web Developer

ELIXIR Hub, Wellcome Trust Genome Campus

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 Snowflake
Terraform Angular Bioinformatics
Web Development 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 Student in 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