

# Roberto Preste

## Senior Software Engineer

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

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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 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

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 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