### 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, Angular, SQLAlchemy, Kafka)
- Provide technical training to interns and internal nonsoftware teams
- Implement and maintain CI/CD and containerisation protocols (Docker, Kubernetes, Helm, AWS, Terraform)
- Provide technical assistance to escalated operational issues

### 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, I

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) (Plain HTML, CSS, Javascript)

#### **SKILLS**



#### **PROJECTS**

mitoviz 🗷

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

#### mitovizR 2

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

#### HmtNote 🗹

 Python package to annotate human mitochondrial variants from VCF files (https://github.com/robertopreste/HmtNote)

#### HmtPhenome 🗹

 Web service that builds networks of variants, genes, phenotypes and diseases (https://www.hmtphenome.uniba.it - archived)

#### HmtVar 🗹

 Database of human mitochondrial variants (https://www.hmtvar.uniba.it - archived)

#### HmtDB 🗹

 Database of human mitochondrial genomes (https://www.hmtdb.uniba.it - archived)

#### **EDUCATION**

# Phd Student in Functional and Applied Genomics and Proteomics

University of Bari "Aldo Moro"

11/2016 - 03/2020

Bari, IT

Thesis

 Bioinformatics software and tools for Big Data in mitochondrial genomics

### 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