Tom Jenkins PhD

Software Developer & Data Analyst

Contact

- Devon, United Kingdom
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Skills

JavaScript 3+ yr

Frontend Development 3+ yr

Cloud Computing 8+ yr

Data Analysis 10+ yr

Data Visualisation 10+ yr

Bioinformatics 8+ yr

Bash / Unix 8+ yr

R 10+ yr

Nextflow 2+ yr

Python 1 yr

Tools

- VS Code / Git / Github
- React
- Vanilla CSS / Tailwind CSS
- RESTful API
- HPC / AWS / OpenStack
- Leaflet.js / ECharts.js

Experience

Frontend Developer
TJ Data Visualisation, UK (Freelance Consultant)

07/2024 – Present

Example Project: I built agile web applications for clients to showcase climate data from the State of Wildfires global report. These apps resulted in 1,278 page sessions, with an average duration of 3 minutes and an engagement rate of 68%.

Postdoctoral Research Fellow in Bioinformatics and Data Analysis
University of Exeter, UK (Fixed Contract)

07/2023 – Present

I am leading a cloud computing project to process and analyse variants from DNA sequencing data (>1 TB) using bioinformatics and statistical analysis. I also mentor junior colleagues in coding and build tools to enhance accessibility and reproducibility in R.

Software Developer and Bioinformatician
Animal and Plant Health Agency, UK

04/2022 – 06/2023

I was the frontend developer in our team of UX, UI and backend data engineers in which we built an internal application to visualise geographic and metadata information to assist case workers in their disease outbreak investigations.

Senior Data Analyst
Natural England, UK

02/2021 – 03/2022

My role was to analyse, visualise and gain insights from geospatial and ecological data for multiple projects, including building R Shiny apps and interactive maps.

Postdoctoral Research Associate in Bioinformatics and Data Analysis
University of Exeter, UK (Fixed Contract)

12/2018 – 01/2021

Education

PhD Bioinformatics
University of Exeter, UK

2014 - 2018

MRes Informatics and Genomics (Distinction)
Imperial College London, UK

2013 - 2014

BSc Marine Biology (First Class Honours)
Swansea University, UK

2010 - 2013

Projects

See my GitHub profile for a comprehensive list of open source projects.

Real-Time Earthquake Dashboard

Interactive dashboard developed to visualise real-time earthquakes using data fetched from the Cesium ion and US Geological Survey APIs.

LobsterGeneX Web App

React web application developed to accompany research article allowing users to visualise gene expression data for European lobsters.

mapmixture

CRAN R package for spatial visualisation of ancestry, admixture and population structure. I am the creator and maintainer of this package.