Tom Jenkins PhD

Software Developer & Data Analyst

Contact

Devon, United Kingdom

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tom-jenkins

in tom-l-jenkins

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

07/2024 - Present

TJ Data Visualisation, UK (Freelance Consultant)

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

07/2023 - Present

University of Exeter, UK (Fixed Contract)

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

04/2022 - 06/2023

Animal and Plant Health Agency, UK

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

02/2021 - 03/2022

Natural England, UK

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

12/2018 - 01/2021

University of Exeter, UK (Fixed Contract)

Education

PhD Bioinformatics University of Exeter, UK

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

2013 - 2014

BSc Marine Biology (First Class Honours)

2010 - 2013

Swansea University, UK

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.