

Junior Software Engineer

Location: Glasgow or Edinburgh based candidates are preferred but a fully remote working arrangement can be discussed. You must have the right to work in the UK.

About us

Earthwave is a data science start-up that uses remote sensing, cloud computing, and artificial intelligence to focus on understanding, predicting and preventing the effects of climate change. Earthwave is part of multiple Europe-wide consortia, delivering scientific research and processing algorithms using a wide range of satellite data and ground-based sensors for monitoring global ice trends, visualising environmental changes, and making satellite data easily accessible and understandable. We are working on a number of cutting-edge climate-related research projects, we generate monthly elevation maps for ice covered regions on behalf of the European Space Agency (ESA), we run a data acquisition service for combined NASA-ESA products leveraging cloud technology, and much more!

We're a small but rapidly evolving company so our employees get to learn a lot of new skill sets and get to work on a diverse range of projects. We thrive on the happiness and professional progression of our employees.

About you

We are looking for a Junior Developer with a scientific degree or equivalent to work on our Earth Observation related technology platforms. You will be a keen problem solver with the ability and drive to learn new technologies. Python experience is essential as is an understanding of fundamental software design principles. Knowledge of source control, test driven development, continuous integration, microservices, containers, and google cloud computing are desirable but can be learned on the job.

An interest in Earth Observation and Spatial Analysis is not essential but would be ideal for someone looking for an opportunity to work on a wider range of projects. There are also opportunities for candidates with experience in gaming engines and 3D rendering who have an eye for aesthetics and/or someone with React web development experience.

Responsibilities

You will have the chance to get involved in all aspects of our projects including software development, architecture design, release management, testing, data engineering, writing scientific algorithms, performing data analysis and documentation/training. It's exciting and rewarding work in which you can make a genuine impact to the company and the industry as a whole. The core responsibilities of the role are:

- Python development
- Build and support n-tier systems using Kubernetes and google cloud computing
- Data analysis and regression testing
- Manage your workload timelines and understand project dependencies
- Get stuck in with a variety of work across the business as needed or where you find it interesting

Essential skills

- 0-5 years programming experience. Python is preferred but a strong grounding in another programming language will be considered
- A background or interest in software architecture and design principles
- Fun, creative, curious and committed with the ability to work independently
- Ability to work remotely if needed (however we currently have office spaces in Glasgow and Edinburgh)

Nice to have skills (we strongly encourage applicants with 2 or more of the below)

- Experience with source control systems
- Exposure to test driven development
- Knowledge of microservices & containers
- Experience with applied statistics and quantitative modelling
- Worked with SQL based relational databases
- Exposure to cloud computing, e.g. Google Cloud or AWS
- Unity gaming engine experience
- Experience with React/JavaScript web development

Do you have any other skills you'd like us to know about? We are a small company and therefore always welcome new expertise.

What does it mean to work with us?

- We are a small but growing team with a range of different backgrounds really enjoying the challenge of running a small business in the space sector. This is an exciting time to join us, since you'll help to shape the company of the future!
- We care about the environment and all our projects and services are focused on understanding, predicting and preventing the effects of climate change on our planet. If you think the same, you'll enjoy working with us!
- We believe a healthy work-life balance leads to a healthier business.
- Over the past 2 years we have mainly been working remotely, however we have office spaces in Glasgow and Edinburgh. Periodic travel will be required to team meetups and conferences.
- We are constantly exploring and discussing new scientific and commercial avenues as a team.
- We have fun working, since we really care about the work that we are doing.

To apply, please send us a CV and a Python script that tells us about your skills, motivation, history or experience. Feel free to be inventive (in under ~100 lines of code)

```
1
2 def contact_email_address():
3     return "talent@earthwave.co.uk"
4
```