

Software Engineer

Location: Edinburgh (hybrid). You must have the right to work in the UK.

About us

Earthwave is a cutting-edge data science company that uses satellite data to predict, understand and prevent the effects of climate change. We are part of multiple international consortia which deliver scientific research and processing algorithms using a range of Earth Observation data and ground-based sensors to monitor global ice trends; quantify environmental changes; and make satellite data easily accessible and understandable. We operate the data and information portal cs2eo.org and produce the CryoTEMPO-EOLIS products on behalf of the European Space Agency, as well as contribute to activities in the preparation and design of new satellite missions.

About you

We are looking for an established Software Engineer with several years of professional experience to develop tools and applications that enable our Earth Observation (EO) research projects. The candidate will be able to make significant contributions to the frontend *and/or* backend components of our tools and services while operating under supervision. Experience 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.

Role Responsibilities

The candidate will report to Earthwave's Software Engineering Manager. They will work closely with Earthwave's Data Scientists and other Software Engineers, as well as with similar staff working for our consortium partners.

The core responsibilities of the role are:

- Design, develop, maintain, and support cloud-hosted applications for multiple tools and services, contributing work to both the frontend and the backend.
- Implement the contents of Algorithm Definition Documents prepared by Data Scientists.
- Develop and maintain company and project websites.
- Contribute to the company's IT function via administration of some cloud and physical assets.
- Contribute to company-wide code reviews and pull request processes.
- Manage your own workload and understand project dependencies and timelines.
- Get stuck in with a variety of other tasks across the small business as needed *and/or* where you find it interesting.

Essential skills

- 2 or more years professional (i.e. exclusive of education) experience in a technical software development role.
- The candidate must possess strong Python *and/or* JavaScript development skills.
- Experience working on at least one project with a pre-existing codebase of significant size.
- Experience working at more than one stage of the software development lifecycle.
- Experience with continuous integration/continuous development (CI/CD) practices.
- Be fun, creative, curious and committed with the ability to work independently.

Desirable skills

The following skills are not essential, but we will consider them favourably when selecting between applicants:

- NoSQL Databases.
- CI/CD tools including Docker, GitHub Actions and Vercel.
- React and CesiumJS.
- Cloud computing services, particularly Google Cloud Platform or OVHCloud.
- Background in remote sensing, healthcare technology, autonomous systems, manufacturing, game development or other area handling real or simulated sensor measurements.
- On-premises Linux server procurement, commissioning, maintenance and disposal.

Do you have any other skills you'd like to share with us? Let us know - 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. We take pride in the quality and efficiency of our work as we think a topic as serious as climate change deserves care and attention. If you think the same, you'll enjoy the opportunity to work with us!
- We enjoy a range of different working styles, working from home some days while gathering in our Edinburgh office on other days. Our staff enjoy hybrid working, flexi-time schemes, and adjusted core hours schemes.
- We believe a healthy work-life balance leads to a healthier business.
- We are committed to Fair Working principles; we strive for a positive work environment that values our employees, and we respect individuals' differences.
- You'll enjoy benefits including dental insurance, a professional subscriptions scheme, a fitness scheme, a cycle to work scheme and the ability to purchase additional annual leave days beyond your standard entitlement.
- We have fun working, since we truly care about the work that we are doing.

To apply, please send a CV to via our nominated agency at <https://nimble.li/qdg3ryy9>. In addition, please provide a Python script of 300 lines or less (not including imports and comments, and with a limit of 120 characters per line) illustrating your technical skills.