**Digital Content Analysis Technology Ltd**
**Senior Full Stack Developer**

**The opportunity**

This is a rare opportunity to push the boundaries of serverless technologies using AWS infrastructure and to bring your skills and experience to our team as we continue the commercialisation of our Fusion Platform®. We've designed and built, in collaboration with the European Space Agency, a novel, flexible platform for delivering tailored software services exploiting satellite imagery and supporting data. With customers already being served worldwide, the business is preparing for further growth centred around the Fusion Platform®'s capabilities, creating the opportunity for someone to join our team to take responsibility for implementing and delivering the platform's roadmap. We're a growing SME based in the heart of Glasgow, with an established worldwide client base and a subsidiary in Australia, delivering novel software services derived from the solutions developed by the technology team you'd be joining.

We believe that anyone, anywhere should be able to affordably harness the benefit of remotely sensed data, and we have built technology that allows us to use a wide range of satellite and other data to solve some of the most pressing business and global needs today. Sustainability, food and water supplies, wildfires, land movement, pollution, deforestation/regrowth, carbon and better, cleaner environments are just some of the big topics we tackle, delivering data products to our clients that provide insights they can action and make a real difference.

**Who are we looking for?**

We are looking for a highly capable and motivated software engineer who will relish the challenge of ensuring that the commercialisation of our Fusion Platform® accelerates. We want someone who wants to be hands-on throughout the process, and who cares passionately that their solutions are robust, useable and commercially attractive.

You'll have had at least five years' experience successfully developing full stack solutions using server and/or serverless architectures on AWS, specialising in back-end development. Commercialising software platforms will also be experience that you can bring to the role, comfortable with scaling, security, robustness and all other aspects of professional platform service delivery. You'll also enjoy a collaborative, dynamic culture, and possess strong interpersonal and customer interfacing skills including presentations.

**The role**

The role is to lead the continued commercialisation of our Fusion Platform®, and will therefore encompass a wide range of technical tasks and responsibilities as well as close working with colleagues in the software team. You will report directly to the Head of Engineering, and you will be expected to specify, plan, monitor, task and implement software. A key part of this will be to understand how complex problems can be solved using creative solutions across the full stack.

The development environment is fast-paced and spans the full application stack. We use agile development methodologies, modern development tools and processes, and an expanding cloud-based infrastructure, and so we require a proven track record of such methods together with demonstrable experience of the ability to successfully design, implement and deliver cloud-based systems and apps.

Based in Glasgow, but with flexibility around home working, the role offers the opportunity to work on worldwide projects and to interact with our Australian-based team, as well as customers and users.

**Skills and experience sought**

Specifically, we seek the following technical skills which are essential for the role:
- A first degree or higher in computer science, software engineering, or related discipline.
- A strong understanding of how to architect, design and implement cloud-based solutions.
- The ability to understand user needs, perform requirements analysis and to produce concise requirements specifications.
- The ability to architect a solution to meet a complex set of requirements, and to articulate this in a comprehensive design document.
- Successful AWS web system design, development, deployment and support.
- Full-stack development (front-end, back-end and web-browser).
- Experience of API and UI services.
- Agile development with full testing, verification and validation.
- Professional, high-quality documentation.

A number of additional technical skills are highly desirable:
- Experience of developing systems which support large-scale geospatial imagery.
- Algorithm experience for image processing and machine learning.

The tools and language expertise sought includes:
- Python: essential
- Docker: essential
- AWS: essential
- DynamoDB/NoSQL: essential
- HTML/CSS: essential
- JavaScript/TypeScript: essential
- Configuration control using Git: essential
- Angular: desirable
- Relational database/SQL: desirable
- Geospatial data manipulation using GDAL: desirable
- MVC web architecture development and testing, e.g., using Ruby on Rails: desirable

**Our technology basis**

Our Fusion Platform® is hosted on AWS and enables us to rapidly tailor software services based on models and algorithms implemented in Python. We use Python, Flask and Serverless for our main back-end development, supported in AWS using a range of infrastructure components, principally API Gateway, Lambda and DynamoDB, but also S3, EFS, Cognito and CloudFront. Our front-end development uses Angular with Open Layers. We also run production systems and prototype solutions using Ruby on Rails and PostgreSQL.

**What we offer**

- The opportunity to lead the commercialisation of a complex, cutting-edge platform that will underpin the company's growth strategy and product delivery.
- The chance to join a growing SME at the forefront of Scotland's space sector, designing and delivering unique new services of value.
- Lots of chances to learn and grow – you'll be part of a great team culture where you'll be supported and have great flexibility to bring your own ideas and shape your role, our team and products.
- A flexible approach to your working location.
- A highly competitive salary.