Digital Content Analysis Technology Ltd
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 help implement and deliver 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 experience successfully developing full stack solutions, specialising in back-end development. Commercialising software platforms will also be experience that you can bring to the role, with awareness of performance, 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 help in 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 implement and test software. A key part of this will be to understand how 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. Having experience of deploying cloud-based solutions to AWS would be beneficial, but this is also an opportunity for an early career developer to gain experience of serverless solutions deployed using AWS infrastructure.

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.
- 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:
- Successful cloud-based web system development, deployment and support.
- Experience of developing systems which support large-scale geospatial imagery.

The tools and language expertise sought includes:
- Python: essential
- Docker: essential
- JavaScript/TypeScript: essential
- HTML/CSS: essential
- Configuration control using Git: essential
- AWS: desirable
- DynamoDB/NoSQL: desirable
- 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 support 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.