



ROLE PROFILE

Software Engineer – Data Insights

Why do we have this role?

Resonate specialises in providing mission critical systems and data science led solutions, primarily in the transport industry. We provide systems that are running 24/7 that keep rail services moving and customers informed. These systems include forecasting, decision support and optimisation. Our Data Insights team is responsible for providing the business and our customers with a range of models that enable them to do better and to make data driven decisions. We are looking for Software Engineers to join this team to help our Data Science and Analysis capability build robust models that can be embedded in our production systems. We are looking to build a framework of models that interact by modelling different aspects of a transport operation and a key element of this role is helping to build and design these models such that they can work together. This role sits right at the heart of our data activities, and you'll bring creativity and an appetite to make things work beyond your primary responsibility.

What are the key objectives?

- Working with the team, design and build software services and components that provide a range of functions, from accessing data to implementing AI and ML models
- Work with our software development teams across our business to ensure that these models can be integrated within our production systems
- Support the team in the development of reusable software components

Top Internal Relationships

1. Data Insights team
2. Software development team

Person Requirements

Profile

- Good communication and appreciation of the team's objectives
- Recognising the value that data can play in impacting our customers' business
- Curious, able to contribute ideas and provide challenge
- A proven ability to systematically approach tasks and to manage multiple, at times changing priorities and expectations
- Strong technical problem solving skills
- Strong focus on producing high quality outputs that deliver reliably for users

Competencies

- A background in the development of resilient, reliable software preferably in a commercial environment
- Experience in the use of machine learning & AI techniques, using frameworks such as Tensorflow
- Experience in writing software in one or more languages, one of which should be Python
- While familiarity with graphical tools and web front ends would be helpful, the main focus will be back end development, making these models run within production environments
- Familiarity with AWS, containerised developments, Restful APIs, data management and data science platforms such as Tensorflow
- A familiarity with the challenges in running AI/ML models in production

