



**Senior Research Software Developer**  
**Insight SFI Research Centre for Data Analytics**  
**Fixed Term Contract up to 30<sup>th</sup> September 2021**

**Overview**

The Insight SFI Research Centre for Data Analytics (<http://www.insight-centre.org>) is an SFI funded Research Centre which brings together researchers from University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions, Trinity College Dublin (TCD), University of Limerick (UL), Maynooth University (MU) and Tyndall National Institute. It creates a critical mass of more than 400 researchers from Ireland's leading ICT clusters to carry out research on a new generation of data analytics technologies in a number of key application domain areas, such as Health and Human Performance, Smart Communities, Internet of Things, Enterprise and Services and Sustainability and Operations.

The €150m Centre is funded by Science Foundation Ireland and a wide range of industry and European Union partners. Insight's research focus encompasses a broad range of data analytics technologies from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together, with more than 220 partner companies, Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

**Project and Role Profile**

FinAccAI provides the complete digital process of extracting in real time financial data direct from offline and online accounting packages. Using our power BI and ML applications, Financial institutions are able to make quicker, more informed lending decisions using our rich data insights.

The Insight Centre is now recruiting for a Research Software Developer to join the FinAccAI team working on industry research & development projects funded by Enterprise Ireland through Commercialisation Fund Awards.

**Principal Duties and Responsibilities**

The duties and responsibilities of the position include:

- Take a lead role in managing a specific programme of research under the supervision of the Principal Investigator.

- Manage budgets and resources accordingly and liaise as necessary with the support units within DCU to achieve this.
- Lead the software development team for the duration of the project.
- Develop new approach in the integration of data from various accounting packages.
- Build infrastructure
- To maintain accurate project records and project confidentiality
- Make an international and national contribution to the research field in which he/she is engaged including as an invited speaker at an international conference and through invitation to participate in commercial research.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
- Manage and conduct administrative and management tasks associated with your programme of research and the requirements of the funder.

### **Qualifications and Experience**

Essential criteria: Candidates must have a degree in an appropriate area or equivalent (NFQ Level 7), (typically an in Computer Science, Software Engineering or a related discipline), plus 6 years' appropriate experience.

#### **In addition, the successful candidate will ideally have:**

- Experience in large scale object-oriented project implementations
- An understanding of statistical analysis and/or AI principles as applied in software development, e.g. clustering analysis and spectral clustering
- Backend development, server-side development including database layer (e.g. Python, Django/Flask, Node.js)
- Cloud skills / deployments including dev-ops (e.g. Nginx, Puppet, Ansible)
- Knowledge of architectural patterns for OO monolithic and distributed software architectures
- Microservice and/or Function as a Service implementation
- Excellent written and oral proficiency in English (essential).
- Excellent written and verbal communication and interpersonal skills.
- Proven ability to prioritize workload and work to strict deadlines.
- Ability to work in a team and to take responsibility to contribute to the overall success of the team.
- Strong problem-solving abilities.

### **Additional Information**

The successful candidates will be offered opportunities for developing their own careers in a number of directions including support for conference/workshop travel, upskilling through Insight's continuous professional development in areas like research ethics and data privacy, student supervision and development and submission of their own research project proposals.

### **Mandatory Training**

The post holder will be required to undertake the following mandatory compliance training: orientation, Health and Safety, Research Integrity and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.