

Software Developer (Computer Science/ Data Science/
AI)

Nanyang Technological University

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Posted Apr. 24, 2025, set to expire Aug. 24, 2025

Job Title	Software Developer (Computer Science/ Data Science/ AI)
Department	Energy Research Institute @ NTU
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 24, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Computer/Information Sciences
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Software-Developer--Computer-Science--Data-Science--AI-_R00020523
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Software-Developer--Computer-Science--Data-Science--AI-_R00020523
Apply By Email	
Job Description	

Established in 2010, the Energy Research Institute @ NTU (ERI@N) is a pan-university research institute that focuses on systems-level research for tropical megacities. It performs translational research that covers the energy value chain from generation to innovative end-use solutions, motivated by industrialisation and deployment. ERI@N has multiple Interdisciplinary Research Programmes which focus on translational Research, Development & Deployment which focus on specific area of the

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energy value chain, and a number of Living labs and Testbeds which facilitate large scale technology deployment enabling validation and demonstration of real-world applications.

For more details, please view <https://www.ntu.edu.sg/erian>

A software developer is crucial in a research institute because they manage and analyze large data sets, automate repetitive tasks, and enhance collaboration among researchers. They develop custom tools and platforms that streamline workflows, improve accuracy, and facilitate the sharing of data and findings. Additionally, developers drive innovation by prototyping new ideas and integrating advanced technologies like AI and big data. They also support the visualization and dissemination of research outputs, making complex data more accessible and impactful. Overall, their expertise significantly boosts the efficiency, accuracy, and innovation of research activities.

Key Responsibilities:

- Design, develop, and implement AI and ML models to support research initiatives.
- Collaborate with researchers to understand project requirements and translate them into technical solutions.
- Develop and maintain data pipelines for efficient data processing and analysis.
- Perform data analysis and visualization to derive insights and support decision-making.
- Integrate AI and ML models into existing and new applications, ensuring seamless functionality.
- Conduct experiments and tests to validate AI and ML models and refine them based on results.
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Stay updated with the latest advancements in AI, ML, and data science, and apply them to research projects.

- Document development processes, models, and algorithms for future reference and reproducibility.
- Ensure compliance with data privacy and security regulations in all development activities.
- Be an R&D team lead to define & achieve the project goals
- Work closely with researchers, developers, partners and/or external vendors for timely project delivery
- Any other ad-hoc duty or responsibility, e.g., project presentation, progress report preparation, procurement and research collaborations etc. assigned by the project supervisor

Job Requirements:

- Bachelor's or master's degree in computer science, Data Science, AI, or a related field.
- Min. Years 8 Years of experience in data engineering, software development, or similar roles
- Prior exposure to ML/Data products is a good to have
- Work on tasks that are an intersection of Software development, Data engineering & Data science Management/Artificial Intelligence/Machine Learning

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Solid knowledge & Strong expertise:

- Experience of open-source SQL/NoSQL databases e.g., Postgres, Timescale DB, Cassandra
- Experienced in secure RESTful API development
- Experienced in Unix/Linux shell scripting
- Experienced in containerized Microservice development using Docker, Kubernetes
- Familiar with modern data ETL stack components (Apache Airflow, streaming/events via Kinesis/Kafka, etc.)
- Familiar with Python data science tools/packages (Pandas, Numpy)
- Experience of MLOps is a plus
- Code integration (Merge request and conflicting code resolution)
- Experience fixing software build issues
- Software Code Review techniques and code debugging skill
- Writing clean code & structured approach in building software systems
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Worked in Agile methodology

- Interested in learning AI/ML workflows
- Willing to learn new technologies based on the project needs

Proficiency:

- Proficient in JavaScript, Python, Go and similar programming languages for backend development
- Proficient in SQL
- Strong skills in the use of current state of the art machine learning frameworks such as Scikit-Learn, H2O, Keras, Pandas, Numpy, TensorFlow and Spark, etc.
- Experience with building and maintaining Big Data, using open-source technologies such as Hadoop and Cassandra
- Proficient in React, Angular or similar frontend technologies
- Proficient in deploying and maintaining CI/CD pipelines e.g. Gitlab CI/CD.

We regret to inform that only shortlisted candidates will be notified.

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Contact Information

Please reference Academickeys in your cover letter when
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Contact

Singapore