## Research Engineer II (Trust Technologies)
## Nanyang Technological University

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| **Job Title** | Research Engineer II (Trust Technologies) |
| **Department** | Digital Trust Centre |
| **Institution** | Nanyang Technological University |
| | Singapore, , Singapore |
| **Date Posted** | May 6, 2024 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | Available Immediately |
| **Job Categories** | Research Scientist/Associate |
| | Professional Staff |
| **Academic Field(s)** | Engineering - Other |
| | Computer Science |
| **Job Website** | https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Engineer-II--Trust-Technologies-_R00012923-1 |

**Apply By Email**

**Job Description**

The National Centre for Research in Digital Trust invites applications for the position of Research Engineer II.

Nanyang Technological University's National Centre for Research in Digital Trust (DTC) is a Trust Technology Research Centre to execute a national program to help put Singapore into a strong trust hub. The key objective is to support efforts to create a trusted digital environment for its people and businesses by providing businesses and consumers with greater assurance and confidence as they digitalize.

## Key Responsibilities:

- Conduct research and development in trust technologies – translating algorithms into tools and frameworks and implementing working prototypes that can demonstrate how research outputs can be innovated to build new capabilities.
- Work closely with Centre's researchers to design and develop research prototypes into the proof-of-concept systems.
- Design and build working tools that can support the technology transfer of new capabilities to research partners and can be used to showcase the value of a given research outcome.
- Write and maintain technical documentation, presentations, and papers on research into trust technologies testing, helping to educate and raise the overall competency in emerging areas of trust technologies.
- Engage global partners and researchers to understand latest trends and advance Singapore's mindshare in this domain.

## Job Requirements:

- Master's degree in computer science/ engineering or related fields required.
- Candidates with minimum of 5 years continuous working experience in a similar role will be considered when appropriate.
- Bachelor degree with minimum 8 years relevant experience may be considered
- Proficiency in programming languages Java, C/C++ is a must.
- Experience in other programming languages and/or frameworks such as Python, Spring will be an advantage.
- Proficiency with using common Linux distributions such as Ubuntu, CentOS is a must.
- Proficiency and experience in developing network and communication protocols and using socket programming in cloud-based systems is a must.
- Proficiency in installing, configuring and using SQL database is a must. Experience in other data processing technologies such as NoSQL, Hadoop will be an advantage.

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- Proficiency and experience in working with different virtualization technologies to enhance cloud service system performance is a must.
- Experience in developing ML systems from end to end, including data exploration, feature engineering, model training/evaluation will be advantageous.

Competencies:

- Good communication skills and some interdisciplinary interest is desired, to be able to interact with researchers at the Centre.
- Ability to work independently and to develop solutions under strict timelines is a must.
- Ability to code-switch effortlessly between talking business and talking tech, and can help stakeholders, engineers, and businesses easily understand difficult research tech concepts.
- Good knowledge of system platform development, socket programming, middleware technologies, API development, related application frameworks and service layer models.
- Familiarity with general API security concepts (such as key validation, authentication, authorisation)
- Good understanding of relational database and Unix shell scripting skills.

We regret that only shortlisted candidates will be notified.

**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

Digital Trust Centre

Nanyang Technological University

Singapore