Research Engineer / Senior Research Engineer (Trust Technologies)
Nanyang Technological University

Job Title	Research Engineer / Senior Research Engineer (Trust Technologies)
Department	Mastercard-NTU Joint Lab
Institution	Nanyang Technological University
	Singapore, , Singapore
Date Posted	Oct. 2, 2024
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Computer Science
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Engineer---Senior-Research-Engineer--Trust-Technologies-_R00018591
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Nanyang Technological University's Mastercard-NTU Joint Lab was established to advance digital trust and cybersecurity. Leveraging Mastercard's industry expertise and NTU's educational resources, the lab leads research and training programs to enhance cybersecurity infrastructure and foster digital trust.

We are looking for a Senior / Research Engineer to design, develop, implement, and oversee techniques and systems in Trust Technology and related areas such as privacy and security, blockchain, and Web 3.0 which are important components of digital trust platforms. The role will focus on emerging technologies that engender trust and espouse the values of fairness, safety, and privacy in digital technologies.

Key Responsibilities:

- Conduct research into trust technologies testing – translating research algorithms, and design/develop tools and frameworks into working prototypes that can explain how research outputs can be productised into new capabilities.

- Work closely with Centre's researchers to design and develop system implementation work from research into product.

- Design and build working tools that can support technology transfer of new research capabilities to practical solution capabilities that 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, help to educate and raise the overall competency of Singapore manpower in emerging areas of trust technologies.

- Engage global partners and researchers to understand latest trends and advance Singapore's

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mindshare in this domain.

- For research engineer position, the emphasis is on the engineering and implementation of trust technologies

- For senior research engineer position, the emphasis is on the system and architecture design of trust solutions for digital transformation in addition to their engineering and implementation.

Job Requirements:

- Minimum Bachelor's degree in computer science/ engineering or related fields.

- Proficiency in programming languages Java, C/C++ is a must. Experience in other programming languages and/or frameworks such as Python, Go, Spring will be an advantage.

- Proficiency with working with common Linux distributions such as Ubuntu, CentOS, RHEL etc. (including shell scripting) 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 is an advantage.

- Proficiency and experience in working with different virtualization technologies to enhance cloud service system performance is a must.

- Experience in developing AI/ML systems from end to end, including data exploration, feature

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engineering, model training/evaluation is an advantage.

- For senior research engineer position, knowledge in privacy enhanced technologies, Web 3.0, and advanced data analytics skill are advantageous.

- Ability to code-switch effortlessly between talking business and talking tech, and can help stakeholders, engineers, and businesses easily understand difficult research tech concepts

- Ability to work independently and to develop solutions under strict timelines is a must.

- Good knowledge of middleware technologies, API development, related system frameworks and service stacks.

- Familiarity with general API security concepts (such as key validation, authentication, authorisation).

- Good understanding of relational database and Unix shell scripting skills.

- For senior research engineer position, experience in designing and architecting system solutions related to trust technologies.

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

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Singapore