

Rischan Mafrur

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EDUCATION

- **The University of Queensland** Brisbane, Australia
Doctor of Philosophy in Data Management *Oct. 2017 – present*
- **Chonnam National University** Gwangju, South Korea
Master of Engineering in Internet of Things *Sept. 2013 – Aug. 2015*
- **Sunan Kalijaga State Islamic University** Yogyakarta, Indonesia
Bachelor of Computer in Informatic Engineering *Aug. 2009 – Jan. 2013*

WORK EXPERIENCE

- **The University of Queensland** Australia
Teaching Assistant *Feb. 2020 - now*
 - **Advanced Database Systems (INFS3200):** Course Coordinator: Prof Xue Li. Duty: leading the tutor team, delivering tutorials and practical sessions, marking projects and exams, 200+ students each semester. **Coverage: distributed database design and implementation, distributed query processing, data warehouse design and implementation, OLAP, data integration, data quality management, data privacy, advanced DB applications(e.g., distributed ledger: Bitcoin, Ethereum)**
 - **Database Principles (INFS7901):** Course Coordinator: Dr Ash Rahimi (2020-2021), Dr Rocky Chen (2022-). Duty: practical sessions, marking projects and exams. **Coverage: relational database modeling and mapping, database normalization, basic and advance SQL, sorting, binary tree, hashing, indexing, and query optimization**
- **The Ministry of Education and Culture (MoEC)** Indonesia
Casual Consultant: Data Scientist *July 2021*
 - **belajar.id:** The Ministry of Education and Culture (MoEC) Republic Indonesia launched a national account program in 2019, in which the ministry provided a national email account for 27 million students as well as 3.4 million teachers. As a data scientist, I have to achieve the expected output: report of the findings, include (but not limited to) the research methodology, data exploration and observations, and recommendations on how to increase the activation and adoption rate
- **Kartoza** South Africa
Backend and DB Engineer *Sept. 2015 - Feb. 2017*
 - **Projecta:** Open source visual changelogs for software releases and for managing a software project at a high level
 - **AgriTechnovation:** Farms view and managing farm lands in South Africa
 - **SANSA Catalogue:** SANSA (South Africa National Space Agency) Earth Observation Online Catalogue
- **Sunan Kalijaga State Islamic University** Yogyakarta, Indonesia
Web Developer and Teaching Assistant - Part-time *Sept. 2010 - July 2013*
 - **Academic Information System:** Develop KKN (Kuliah Kerja Nyata) online registration system using CodeIgniter Framework with Restful API and Oracle Database
 - **Courses that I tutored:** : Algorithms and Data Structures; Operating System (Linux) Bash Scripting Language; Databases; Object Oriented Programming; Web Programming; Information System; Mobile Computing;

CERTIFICATES

- Google Cloud Platform Big Data and Machine Learning Fundamentals
- Building Resilient Streaming Analytics Systems on GCP
- Modernizing Data Lakes and Data Warehouses with GCP
- Smart Analytics, Machine Learning, and AI on GCP
- Machine Learning for Business Professionals
- Building Batch Data Pipelines on GCP
- Developing AI Applications on Azure

- Getting Started with AWS Machine Learning
- Blockchain and Smart Contract Security
- Blockchain: Beyond the Basics
- What is Web3?

PROGRAMMING SKILLS

- **Languages:** Python, SQL **Technologies:** UNIX system, AWS, GCP, Jupyter Notebook, Docker, Git, Crypto projects: Ethereum, The Graph Protocol, and Solana

MISCELLANEOUS

- **Kaggle Competition Expert (Rank 413 of 179,920 globally):** Top 3% (Silver Medal) Jane Street Market Prediction Competition and Top 4% (Silver Medal) Cornell Birdcall Identification Competition
- **Youtube Channel: Crypto and Data Science:** I have been in crypto since 2015. In 2021, I started to educate Indonesian millennials and gen Z about Blockchain, Cryptocurrency, Bitcoin, Decentralized Finance (DeFi), Decentralized apps (Dapps), and Non-fungible token (NFT) using my Youtube Channel
- **Dune Blockchain Analytics:** The collection of my crypto research dashboards, mostly doing analysis on Solana Blockchain, the language is SQL

PUBLICATIONS

- **Rischan Mafrur**, Mohamed A. Sharaf and Guido Zuccon, “Quality Matters: Understanding the Impact of Incomplete Data on Visualization Recommendation”, *DEXA '20 The 31st International Conference on Database and Expert Systems Applications*, September 14 - 17, 2020 , Bratislava, Slovakia.
- **Rischan Mafrur**, Mohamed A. Sharaf and Hina A. Khan, “DiVE: Diversifying View Recommendation for Visual Data Exploration”, *CIKM '18 Proceedings of the 27th ACM International Conference on Information and Knowledge Management*, October 22 - 26, 2018 , Torino, Italy.
- **Rischan Mafrur**, I Gde Dharma Nugraha and Deokjai Choi, “Modeling and discovering human behavior from smartphone sensing life-log data for identification purpose”, *International Journal of Human-centric Computing and Information Sciences*, Vol. 5 (2015), pp. 1-18.
- **Rischan Mafrur**, Priagung Khusumanegara, Gi Hyun Bang, Do Kyeong Lee, I Gde Dharma Nugraha and Deokjai Choi, “Developing and Evaluating Mobile Sensing for Smart Home Control”, *International Journal of Smart Home*, Vol. 9, No. 3 (2015), pp. 215-230.
- **Rischan Mafrur**, M Fiqri Muthohar, Gi Hyun Bang, Do Kyeong Lee, Kyungbaek Kim and Deokjai Choi, “Twitter Mining: The Case of 2014 Indonesian Legislative Elections”, *International Journal of Software Engineering and Its Applications*, Vol. 8, No. 10 (2014), pp. 191-202.
- Priagung Khusumanegara, **Rischan Mafrur** and Deokjai Choi, “Why Smartphone Users Accessing Facebook Through Facebook Mobile Website?: Battery and Privacy Awareness”, *International Journal of Multimedia and Ubiquitous Engineering*, Vol. 10 , No. 8 (2015), pp. 339-346.
- **Rischan Mafrur**, I Gde Dharma Nugraha and Deokjai Choi, “Concept, Design and Implementation of Sensing as a Service Framework”, *ACM IMCOM, The 9th International Conference on Ubiquitous Information Management and Communication*, January 2015, Bali, Indonesia.
- **Rischan Mafrur**, M. Fiqri Muthohar, Gi Hyun Bang, Do Kyeong Lee and Deokjai Choi, “Awareness Home Automation System Based on User Behavior through Mobile Sensing”, *CUTE 2014, The 9th KIPS International Conference on Ubiquitous Information Technologies and Apps*, December 2014, Guam, USA.
- Priagung Khusumanegara, **Rischan Mafrur** and Deokjai Choi, “Profiler for Smartphone Users Interests Using Modified Hierarchical Agglomerative Clustering Algorithm Based on Browsing History”, *ICT-Eurasia 2015/CONFENIS 2015: 89-96*, October 2015, Daejeon, South Korea.