

Course Outline

- **Overview of anonymisation (Know the rules and your data)**
 - Data anonymisation:
 - Anonymity and data anonymisation
 - Data attributes
 - Keep data secret versus keep identity secret versus protect new insights
 - Brief introduction to legal aspects under Personal Data Protection Act (PDPA)
 - Identification, Identifiability, and sensitivity of data:
 - Anonymisation scale
 - PDPC Guide's release models
- **Basic anonymisation (Know the process, techniques, and relationships)**
 - PDPC's 5 step process
 - Key techniques and exercises
 - Utility versus information loss: Basics of information content and information entropy
- **Details of k-anonymity with exercises (Know k-anonymity measure)**
 - Origin and intent of k-anonymity
 - Concept of equivalence class
 - k-anonymity: Protection against re-identification and limitations
 - Exercises on small and complex data sets

Course Facilitator



Albert Johann Pichlmaier is Senior Learning Technology Designer with Drew Academy and concurrently Senior Cybersecurity & Privacy Engineer with Drew & Napier's Data Protection, Privacy & Cybersecurity practice. He holds a degree in Computer Science from a German tertiary institution. He is a Certified Information Systems Security Professional (CISSP), a Certified Data Privacy Solutions Engineer (CDPSE), a holder of the Singapore WSQ Advanced Certificate in Learning and Performance (ACLP), and a certified Blockchain Developer. Albert is credited as an inventor of two patents granted in Germany and other countries. His technical expertise provides Drew & Napier and our clients with a wide-ranging perspective on matters involving Cybersecurity, Cryptography, Quantum Computing, Artificial Intelligence / Machine Learning, Blockchain Development, Data Analytics, Big Data, and Data Visualisation, amongst others. For the courses and webinars under the Drew Academy, he draws from this pool of knowledge and experience to explain technical content to non-technical audiences, develop proof-of-concept and learning tools, and engage with experts on finer details.

Albert was formerly an Executive Manager with the Personal Data Protection Commission (PDPC), where he was involved in technology assessments for data breach investigations, research into trending / disruptive technologies and advising on technical aspects of various PDPC guidelines and publications (amongst other matters). Prior to his role with the PDPC, Albert worked in several technology-related roles, in particular as Technical Manager for the Common Criteria Certification Body within Infocomm Development Authority of Singapore (IDA), and various companies in Germany, Spain and Singapore including as Vice President of research and development, lead testware engineer and software engineer. He was also a technopreneur, having set up a company to provide testing tools for embedded systems and smartcard applications.