DAFTAR PUSTAKA

[1] N. Nurseitov, M. Paulson, R. Reynolds, and C. Izurieta, "Comparison of json and xml data interchange formats: a case study," *Caine*, vol. 2009, pp. 157–162, 2009.

[2] J. F. Kurose and K. W. Ross, *Computer Networking: A Top-Down Approach*, 7th ed. Pearson, 2017.

[3] R. Elmasri and S. B. Navathe, *Fundamentals of Database Systems*, 7th ed. Pearson, 2016.

[4] T. Connolly and C. Begg, *Database Systems: A Practical Approach to Design, Implementation, and Management*, 6th ed. Pearson Education, 2015.

[5] S. Klabnik and C. Nichols, *The Rust Programming Language*. No Starch Press, 2019.

[6] K. McNamara, "High-performance web services with actix web and tokio," 2021, https://actix.rs/.

[7] K. Nielsen, T. Andersen, R. Jensen, J. H. Nielsen, and I. Chorkendorff, "An open source data storage and visualization back end for experimental data," *Journal of Laboratory Automation*, vol. 19, no. 2, pp. 183–190, 2014.

[8] A. Salehi, J. Jimenez-Berni, D. M. Deery, D. Palmer, E. Holland, P. R. Larraondo, S. C. Chapman, D. Georgakopoulos, and R. T. Furbank, "Sensordb: A virtual laboratory for the integration, visualization and analysis of varied biological sensor data," *Plant Methods*, vol. 11, no. 1, pp. 1–14, 2015.

[9] S. Li, X. Gao, W. Wang, and X. Zhang, "Design of smart laboratory management system based on cloud computing and internet of things technology," in *Journal of Physics: Conference Series*, vol. 1549, no. 2. IOP Publishing, 2020, p. 022107.

[10] M. Marwede *et al.*, "Monitoring and alerting in iot systems: Challenges and solutions," *Journal of Internet of Things*, vol. 5, no. 3, pp. 123–135, 2020, akses: 2025-09-18. [Online]. Available: https://doi.org/10.1016/j.iot.2020.03.001

[11] A. M. Sinaga and P. Sibarani, "The implementation of caching database to reduce query's response time," *International Journal*, 2016.

[12] Q. Luo, J. Naughton *et al.*, "Middle-tier database caching for e-business: the dbcache project," in *SIGMOD*, 2002.

[13] C. Garrod *et al.*, "Scalable query result caching for web applications (ferdinand)," in *PVLDB*, 2008.

[14] B. Wang, C. Tang, R. Zhong, B. Fan, Y. Wang, J. Wang, S. Chen, B. Ding, and L. Zhang, "Metadata caching in presto: Towards fast data processing," *arXiv preprint arXiv:2211.10889*, 2022.

[15] C. Tang, B. Wang, Z. Luo, H. Wu, S. Dasan, M. Fu, Y. Li *et al.*, "Forecasting sql query cost at twitter," *arXiv preprint arXiv:2204.05529*, 2022.

[16] S. Agarwal, B. Panda, B. Mozafari, H. Milner, S. Madden, and I. Stoica, "Blinkdb: Queries with bounded errors and bounded response times on very large data," in *Proceedings of the 8th ACM European Conference on Computer Systems*, 2013, pp. 29–42.

[17] Prometheus Authors. (2025) Prometheus: Monitoring system & time series database. Diakses: 8 September 2025. [Online]. Available: https://prometheus.io/

[18] Grafana Labs. (2025) Grafana documentation. Diakses: 8 September 2025. [Online]. Available: https://grafana.com/docs/

[19] P. Authors, "Alertmanager: Alert handling for prometheus," https://prometheus.io/docs/alerting/latest/alertmanager/, diakses 2025.

[20] U. N. Nauha and A. Subardono, "Implementasi sistem monitoring server menggunakan prometheus dan grafana dengan notifikasi email (studi kasus pt hino motors manufacturing indonesia)," 2025.

[21] A. Study, "Enhancing observability and resiliency in hybrid cloud ci/cd platforms," *ResearchGate*, 2025.

[22] M. A. Naqvi, S. Malik, M. Astekin, and L. Moonen, "On evaluating self-adaptive and self-healing systems using chaos engineering," *arXiv preprint*, 2022.

[23] C. Ji and H. Luo, "Cloud-based ai systems: Leveraging large language models for intelligent fault detection and autonomous self-healing," *arXiv preprint*, 2025.

[24] A. S. Tanenbaum and H. Bos, *Modern operating systems*. Pearson Education, Inc., 2015.

[25] J. L. Hennessy and D. A. Patterson, *Computer architecture: a quantitative approach*. Elsevier, 2011.

[26] G. DeCandia, D. Hastorun, M. Jampani, G. Kakulapati, A. Lakshman, A. Pilchin, S. Sivasubramanian, P. Vosshall, and W. Vogels, "Dynamo: Amazon's highly available key-value store," in *Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles*. ACM, 2007, pp. 205–220.

[27] M. Project, "Moka: Fast, concurrent cache library for rust," 2024, available online: https://docs.rs/moka.

[28] E. J. O'Neil, P. E. O'Neil, and G. Weikum, "The lru-k page replacement algorithm for database disk buffering," *ACM SIGMOD Record*, vol. 22, no. 2, pp. 297–306, 1993.

[29] C. Coronel and S. Morris, *Database Systems: Design, Implementation, & Management*. Cengage Learning, 2016.

[30] C. Date and H. Darwen, *Foundations of Databases*. Addison-Wesley, 2000.

[31] J. L. Hennessy and D. A. Patterson, *Computer Architecture: A Quantitative Approach*. Morgan Kaufmann, 2017.

[32] M. Stonebraker and J. M. Hellerstein, "One size fits all? part 2: Benchmarking results," *ACM SIGMOD Record*, vol. 34, no. 2, pp. 10–20, 2005.

[33] T. Bray, "The javascript object notation (json) data interchange format," 2017, rFC 8259. [Online]. Available: https://tools.ietf.org/html/rfc8259

[34] R. T. Fielding, J. Gettys, J. C. Mogul, H. Frystyk, L. Masinter, P. Leach, and T. Berners-Lee, "Hypertext transfer protocol – http/1.1," https://www.rfc-editor.org/rfc/rfc2616, 1999, rFC 2616.

[35] J. Iyengar and M. Thomson, "Quic: A udp-based multiplexed and secure transport," *RFC Editor*, no. 9000, 2021. [Online]. Available: https://www.rfc-editor.org/info/rfc9000

[36] V. Braun and V. Clarke, *Thematic analysis: A practical guide*. Sage, 2021.

[37] N. Hassan, *API Security in Action*. Manning Publications, 2020.

[38] R. T. Fielding, "Architectural styles and the design of network-based software architectures," Ph.D. dissertation, University of California, Irvine, 2000.

[39] L. Richardson and S. Ruby, *RESTful Web Services*. O'Reilly Media, Inc., 2008.

[40] OpenAPI Initiative, "Openapi specification v3.1.0," https://spec.openapis.org/oas/latest.html, 2023, accessed: 2025-06-25.

[41] S. Peluso and S. Team, "Scylla: A fast and highly available nosql data store," in *Proceedings of the VLDB Endowment*, vol. 14, no. 12, 2021, pp. 2974–2981.

[42] ScyllaDB, "Scylladb documentation," 2023, https://docs.scylladb.com/.

[43] M. Raasveldt and H. Mühleisen, "Duckdb: An embeddable analytical database," in *Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data*, 2020, pp. 1981–1994.

[44] M. Raasveldt *et al.*, "Vectorized, lazy, just-in-time data science: A design philosophy for duckdb," *arXiv preprint arXiv:2301.09195*, 2023.

[45] A. Lakshman and P. Malik, "Cassandra: a decentralized structured storage system," *ACM SIGOPS Operating Systems Review*, vol. 44, no. 2, pp. 35–40, 2010.

[46] ——, "Cassandra: a decentralized structured storage system," *ACM SIGOPS Operating Systems Review*, vol. 44, no. 2, pp. 35–40, 2010.

[47] J. Carpenter and E. Hewitt, *Cassandra: The Definitive Guide: Distributed Data at Web Scale*, 2nd ed. Sebastopol, CA: O'Reilly Media, 2016.

[48] A. Mahgoub, S. Ganesh, F. Meyer, A. Grama, and S. Chaterji, "Suitability of nosql systems—cassandra and scylladb—for iot workloads," in *2017 9th International Conference on Communication Systems and Networks (COMSNETS)*. IEEE, 2017, pp. 476–479.

[49] A. Silberschatz, H. F. Korth, and S. Sudarshan, *Database system concepts*, 6th ed. McGraw-Hill, 2010.

[50] ScyllaDB Inc., "Scylladb best practices," https://docs.scylladb.com/stable/architecture/best-practices.html, 2023, accessed: 2025-01-15.

[51] ——, "Scylladb rust driver documentation," https://rust-driver.docs.scylladb.com/, 2023, accessed: 2025-01-15.

[52] A. Patel, *Modern Data Center Management*. Springer, 2023.

[53] H. Alshahrani and M. Alzain, "A survey on data center infrastructure monitoring and management," *Journal of Cloud Computing*, vol. 11, no. 1, p. 45, 2022.

[54] D. Vengerov, "Data center monitoring and analytics: A machine learning perspective," *IEEE Transactions on Network and Service Management*, vol. 19, no. 3, pp. 244–257, 2022.

[55] B. Sigelman, *Distributed Tracing in Practice: Instrumenting, Analyzing, and Debugging Microservices*. O'Reilly Media, 2019.

[56] J. Turnbull, *The Art of Monitoring*. Turnbull Press, 2018. [Online]. Available: https://artofmonitoring.com/

[57] Y. Zhang, C. Liu, and T. Wang, "Ai-driven data center monitoring: Architectures and case studies," *ACM Computing Surveys*, vol. 55, no. 4, p. 78, 2023.

[58] Prometheus Authors, "Prometheus - monitoring system & time series database," https://prometheus.io, 2023, accessed: 2025-08-06.

[59] J. Wilk, "Prometheus: Monitoring system & time series database," in *Proceedings of the 2015 USENIX Conference on Operational Monitoring*. USENIX Association, 2015, available at: https://prometheus.io/docs/introduction/overview/.

[60] P. Barham, "Modern monitoring with prometheus," *ACM Queue*, vol. 19, no. 1, pp. 45–60, 2021.

[61] Grafana Labs, "Grafana: The open observability platform," https://grafana.com, 2023, accessed: 2025-08-06.

[62] S. Lucas and C. Martinez, "Observability: Metrics, traces, and logs," *IEEE Software*, vol. 38, no. 2, pp. 91–95, 2021.

[63] Prometheus Authors, "Prometheus alertmanager," https://prometheus.io/docs/alerting/latest/alertmanager/, 2023, accessed: 2025-08-06.

[64] Docker Inc., "Docker documentation," https://docs.docker.com, 2024, accessed: 2025-08-06.

[65] D. Merkel, "Docker: Lightweight linux containers for consistent development and deployment," *Linux Journal*, vol. 2014, no. 239, 2014. [Online]. Available: https://linuxjournal.com/content/docker-lightweight-linux-containers-consistent-development-and-deployment

[66] C. Boettiger, "An introduction to docker for reproducible research," *ACM SIGOPS Operating Systems Review*, vol. 49, no. 1, pp. 71–79, 2015.

[67] B. Burns, B. Grant, D. Oppenheimer, E. Brewer, and J. Wilkes, "Borg, omega, and kubernetes," in *Communications of the ACM*, vol. 59, no. 5, 2016, pp. 50–57.

[68] ScyllaDB Inc., "Scylladb repair," https://docs.scylladb.com/stable/operating-scylla/procedures/maintenance/repair.html, 2023, accessed: 2025-01-15.

[69] A. Mahgoub, S. Ganesh, F. Meyer, A. Grama, and S. Chaterji, "Suitability of nosql systems—cassandra and scylladb—for iot workloads," in *2017 9th International Conference on Communication Systems and Networks (COMSNETS)*. IEEE, 2017, pp. 476–479.