

MUHAMMAD NAQIUDIN BIN NOOR AFFANDY
SOFTWARE ENGINEER – MASTER DATA DEVELOPER
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PROFESSIONAL SUMMARY

Detail oriented Data & Software Engineer with proven track record of over 2 years in the industry. currently serving as a Software Engineer for L3 Master Data Solution Developer at Infineon Technologies. Proven success in managing enterprise data systems, database development and backend application engineering, with hands-on work in SQL, Python, C#, AI usage and Azure DevOps by supporting large-scale systems. Microsoft-certified in Azure Data Fundamentals and Power BI Data Analyst Associate, with practical experience in machine learning, AI, data analytics, and cloud-based data workflows. Committed to driving innovation and leveraging professional experience to improve system performance and reliability in fast-paced environments.

EDUCATIONAL BACKGROUND

UNIVERSITI KEBANGSAAN MALAYSIA (UKM)

(Sept 2021 – Jul 2025)

Bachelor of Computer Science (Hons) Data Science

CGPA: 3.70

Dean's List: 6 Semesters

First Class Honours

MALACCA MATRICULATION COLLEGE

(May 2020 – May 2021)

Physical Science (Module 2)

WORK EXPERIENCE

INFINEON TECHNOLOGIES

(Jul 2025 – 2026)

Software Engineer – Master Data Developer

- Led incident resolution using Remedy for low- to critical-priority issues and executed Change Requests (CRs) through Octane to provide system repairs and enhancements.
- Expertise in Enterprise Database Management and consistent maintenance Infineon's enterprise engineering database systems ensure data integrity, availability, and consistent data flow across system classes and worldwide environments.
- Managed Oracle database using PL/SQL for patching, cleaning, restructuring, updates and data manipulation, developed functions, procedures and packages to automate backend tasks.
- Developed and refined ETL and data warehousing processes, including validation and error management, significantly improve data reliability and system performance.
- Enhanced backend and frontend features using C# .NET, contributing to system improvements, feature releases and performance optimization.
- Led release management and CI/CD operations as Software Release Manager (SRM), ensuring stable deployments across DEV, INT and PROD environments through weekly Jenkins releases.
- Established SAP-related projects involving data migration, restructuring, duplicate management, data cleansing and reporting for enterprise data consistency, streamlining workflow by **30%**.
- Successfully utilized Jira for issue tracking, WinSCP for secure file transfers and TFS/Azure DevOps with Visual Studio for version control, script management and collaborative development.
- Developed KNIME workflows to automate comparable problem tickets, such as data patching, manipulation and clean data preparation in Excel, saving **50%** time.
- Successfully collaborated and troubleshooted with users, engineers and cross-functional teams to resolve database, backend, and UI issues and maintain smooth system operations.
- Generated technical documentation, UML diagrams and workflow visualizations using open-source tool to explain database scripts, ETL processes, and system architecture.
- Utilized GitHub Copilot, GPT, Claude, Grok, and LLaMA to accelerate development, improve debugging and enhance productivity by **25%**.

FREELANCE WEB DEVELOPER

(Sept 2025 – 2026)

Web Developer (Freelance)

- Successfully designed responsive, high-performance websites for clients using Next.js and TypeScript, prioritizing scalability, SEO and modern UI/UX practice.
- Expertise in frontend and full-stack development, including Next.js, server-side rendering (SSR) and static site generation (SSG) for optimized performance.
- Managed successful Vercel and Cloudflare applications, including domain configuration, DNS records, SSL and CDN, for safe and fast global delivery.
- Utilized GitHub for source code management, version control and collaborative development workflows, including branching strategies and pull requests.
- Implemented SEO best practices, metadata structuring and performance tuning (e.g. Lighthouse enhancements, lazy loading, image optimization) to increase search visibility and user experience within **1** successful year.
- Configured domain routing, DNS records, and hosting environments for consistent website accessibility and uptime.

- Utilized VS Code and recent development tools to streamline coding, debugging, and project management for various client projects.
- Engage with clients to gather requirements, propose solutions, and deliver projects aligned with business goals and timelines.

AIRASIA (K-YOUTH EMPLOYMENT PROGRAMME)

(Apr 2025 – June 2025)

Data Scientist Team (Apprenticeship)

- Received professional training in multiculturalism, communication, presentation skills and team collaboration.
- Collaborated with team to develop XGBoost machine learning models for predicting food waste, including data cleaning, feature engineering, and hyperparameter tuning.
- Gained hands-on experience on Google Cloud Platform (GCP) for data tracking, validation and workflow monitoring.

TM RESEARCH & DEVELOPMENT

(Sept 2024 – Jan 2025)

Data Science Intern (Internship)

- Improved data quality by **90%** by processing and cleaning up thousands of records from complex network datasets such as access networks, termination logs, CTT and speed tests, enabling accurate fault monitoring and QoS analysis.
- Developed Random Forest Regression and LSTM models utilizing time-series data to anticipate internet speed changes and network failures with **80%+** accuracy.
- Built analytical dashboards using Power BI and Python (Matplotlib, Seaborn) to present weekly insights on network performance and support data-driven optimization decisions.
- Successfully supported OracleDB to MariaDB conversion, ensuring reliable data integration through rigorous testing and ETL development.
- Automated data extraction and transformation workflows using Selenium Robot Framework, reducing manual tasks by **60%** and improving reporting efficiency.
- Led Angular frontend development and REST API integration for TM R&D internal platforms, including data visualization, network analytics and monitoring dashboards.
- Contributed in developing Spring Boot backend services within a microservices architecture, supporting service integration and data task.
- Implemented Jira and GitLab to contribute to **8+** sprint cycles of Agile development, including version control, issue tracking, and cross-team collaboration with the project team.

PROFESSIONAL CERTIFICATION AND TRAINING ATTENDED

- **HackerRank Certified: Software Engineer Intern (2024)**
- **HackerRank Certified: Frontend developer (React) (2024)**
- **HackerRank Certified: SQL (Intermediate) (2024)**
- **Microsoft Certified: Azure Data Fundamentals (2025)**
- **Microsoft Certified: Power BI Data Analyst Associate (2025)**
- **Khazanah K-Youth Employment Programme (2025)**
- **Asia Pacific University of Technology and Innovation certified: Analyzing Data with Power BI (2025)**

INVOLVEMENTS

- Program Leader, SCHOOL@UKM Workshop Prototyping using Figma and Bravo **(2024)**
- Gold Award, Contingent March-Past, Sukan Antara Fakulti (SAF), Universiti Kebangsaan Malaysia **(2023)**
- Bronze Award, AR/VR Reality Competition, Mobile Application Development Club **(2022)**
- Silver Award, International Digital Innovation and Invention Challenge (IDIIC) **(2021)**

SKILLS

Programming Languages	: Python, Java, SQL, C#, PHP, R, HTML, CSS, JavaScript, TypeScript
Web Development	: React, Angular, Next JS, Django, Flask, API, Git, Spring Boot, Node.js
Data Science & AI Tools	: Scikit-Learn, Ultralytics, TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Seaborn, Matplotlib, Anaconda, LabelImg, Selenium
Big Data & Cloud	: Hadoop, Hive, Microsoft Azure, Microsoft Fabric, Azure DevOps Server, Azure, Data Factory, Azure Databrick, KNIME
Data Analytics	: Microsoft Power BI, Tableau, Google Sheets, Microsoft Excel, Pivot, Looker
Databases	: Microsoft MariaDB, OracleDB, Microsoft Access, PhpMyAdmin, SAP
Tools & Software	: GitLab, Github, Linux, VMware, Ubuntu, Visual Studio Code, Visual Studio, WinSCP, Confluence, Remedy, Jira, SharePoint, GitHub Copilot, Jenkins, WinSCP

LANGUAGES

Malay	: Native Proficiency
English	: Full Professional Proficiency
Indonesia	: Full Professional Proficiency

REFERENCE

Available Upon Request