Richard Kurniawan

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EDUCATION

National University of Singapore Singapore
Bachelor of Engineering, Major in Computer Engineering, Minor in Entrepreneurship *Aug. 2021 – May 2025*
- Relevant Coursework: Computer Networks, Real-Time Operating Systems, Quantitative Reasoning and Data, Robotics, Software Engineering Principles and Patterns

EXPERIENCE

DHL Express Singapore Singapore
Regional Business IT Intern *Jan. 2024 – Aug. 2024*
- Designed, developed, and deployed interactive **Power BI dashboards** that visualized key regional performance metrics across 25+ countries, reducing reporting time by 70% and enabling faster, data-driven decision-making.
- Managed and optimized large-scale **SQL databases**, improving query performance by 40% and ensuring high data availability and accuracy for regional analytics workloads.
- Led the **migration of legacy on-premise systems to Microsoft Azure**, including ETL pipelines, Azure SQL, and Blob Storage—enhancing scalability and reducing material costs by over **SGD 1.2 million annually**.
- Implemented real-time data integration using **Azure Data Factory**, replacing manual paper-based workflows with fully digital processes—**cutting paper usage by 90%** and significantly improving operational sustainability.

DHL Express Singapore Singapore
Regional Business IT (Part-Time) *Sep. 2024 – Apr. 2025*
- Provided ongoing maintenance and technical support for internal business applications, achieving **99.9% system uptime** and ensuring a seamless user experience for over 500 active users.
- Diagnosed and resolved application bugs and performance bottlenecks, leading to a **reduction in incident response time** and improved system reliability.
- Contributed to the **modernization of legacy systems** by refactoring and migrating critical components to newer, more scalable frameworks—enhancing performance and long-term maintainability.

NUS DJI RoboMaster, Dart Team Singapore
Engineering Team Member *Jan. 2021 – Dec. 2021*
- Co-developed a long-range **Dart Launching System** capable of consistently firing darts over 30 meters, used in competitive robotics.
- Enhanced performance and accuracy through the integration of **Arduino-based control systems** and custom hardware optimization.

PROJECTS

Final Year Project | *Unity, C#, Vuforia SDK* Jan. 2025 – May 2025
- Developed a complete AR/VR visualizer using the **Unity API** and **Vuforia SDK**, enabling seamless integration with the team's application architecture.
- Engineered interactive features and anchored virtual objects to image targets, enhancing the project's real-time user interaction and immersion.

NUANSA Website | *React, Material UI, Typescript, Javascript, MySQL* Jan. 2022 – May 2022
- Designed and developed a full-stack web application for the NUANSA organization, handling the front-end, middleware, and back-end using React, Material UI, TypeScript, JavaScript and MySQL.

Technical Interview Preparation Web App | *React, Node.js* Aug. 2021 – Dec. 2021
- Played an integral role in a team project by leading the front-end and middleware development of a collaborative web application designed to help students prepare for technical interviews.

ORGANIZATION

PINUS Singapore
Honorary Welfare Member *Jun. 2022 – May 2023*
- Collaborated with fellow committee members to plan and execute welfare events that fostered a more cohesive and supportive community within PINUS, demonstrating strong teamwork, communication, and initiative to enhance member engagement and overall well-being.

SKILLS

Programming Languages
C++, C, C#, Bare Metal, Java, Python, Javascript, Typescript, MySQL

Tools & Technologies
PowerBI, SQL, Microsoft Azure, Azure Data Factory, Azure SQL, Azure Blob Storage, Unity, ERPNext