KP Sut Ring Ja

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Over 8 years of working experience in manufacturing with a specialty in data analytics and high-volume data management. Moreover, I have exposed with analytical, project management, and designing advanced manufacturing equipment tools. Currently, I am upgrading my skill sets in analytics in the area of data driven decision making at the Ontario Tech University in Oshawa, Canada and seeking for job opportunities.

EDUCATION

University of Ontario Technology – Oshawa, ON **(Sept 2024 – Present)**
Master of Business in Analytics and AI

George Brown College – Toronto, ON **(Sept 2023 – Aug 2024)**
Postgraduate Diploma in Applied A.I Solution Development

National University of Singapore – Singapore, Singapore **(Aug 2017 – Dec 2021)**
Bachelor of Technology in Electronic Engineering – Singapore

Republic Polytechnic – Singapore **(Apr 2013 – Apr 2016)**
Diploma in Electrical and Electronic Engineering

TECHNICAL SKILLS

Programming:	C, Python, R, SQL,
Big Data:	Hadoop, MongoDB, MariaDB, Snowflake,
Data Visualization:	PowerBi, Tableau, Alteryx, (Seaborn, Matplotlib, Plotly, Pygal, etc),
Manufacturing Skills:	PowerPoint, SPC (Statistical Process Control), GERM, Gantt charts, Process Capability, Product Quality, Process Capability, Root Cause Analysis, Flow Charts, Technical Reviews, Presentation, Budgeting, Cost Control and Analysis, Engineering Change Control, Problem Solving
Cloud Technologies:	AZURE, Docker, Kubernetes, SSIS(ETL & Data Integration), Ubuntu
Machine Learning :	**Supervised Learning**: Linear Regression, Logistic Regression, Decision Trees, Random Forests **Unsupervised Learning**: K-means Clustering, Principal Component Analysis (PCA) **Deep Learning**: Neural Networks (using libraries such as TensorFlow or PyTorch) **Other Techniques**: Support Vector Machines (SVM), Gradient Boosting (XGBoost, LightGBM)

Experience

Manufacturing Engineer **(January 2021 – August 2023)**
Micron Semiconductor Asia | Singapore, Woodlands

- Analytical software to monitor product traces, mitigating defects, and enhancing product quality
- conduct through process equipment operations, identifying key areas for performance.
- stakeholder of department's warehouse databases and inventory
- coordinate manufacturing priorities, productivity, using LEAN technique
- Continuous Improvement Projects (CIP) for cost reduction and automation
- Review and proposed designs using AutoCAD/ Solid Works proposed by vendors

Technical Specialist (**January 2019 - December 2021)**

- addressing advanced troubleshooting processes
- recommendation on system designs and development
- Taking in charge of production workstation

Technologist 2 (**January 2016 – January 2019)**

- Troubleshoot manufacturing line equipment tools
- Update daily works with engineering team and production team

Technologist 1 (**May 2016 – January 2016)**

- Reporting to area engineers and performed PM/CM/6s

Service Engineer
MedTech engineering | Singapore, Bukit Timah **(August 2015 – February 2016)**

- Warehouse management, shipping, and troubleshooting
- Product demonstration and sales of hospital equipment

Projects

Battery Management for Electric Vehicles (Dissertation, NUS) Developed a system using 12-cell lithium batteries with active/passive balancing. Applied sensors, MATLAB, and machine learning for efficient SoC estimation and battery life analysis.

Hadoop-Spark-pipeline (George Brown) Created a high-efficiency data pipeline with Hadoop Spark, using Scala and Java. This ETL system processes large datasets in HDFS, performing complex joins and analysis with Spark, and effectively stores the results back in HDFS, enhancing data analysis capabilities.

Finance Analysis Pipeline (George Brown) Developed a streaming pipeline for comprehensive stock market analysis, integrating data from diverse sources into a cloud-based platform. Utilized Snowflake, PostgreSQL, MariaDB, Hadoop, SQL Server, and MongoDB for data storage and processing, with Azure SQL serving as the central repository. The project is the creation of dynamic Power BI dashboards, providing insightful visualizations and analytics to inform investment decisions and market strategies.

Acoustic IOT project (Micron, 2021) Developed an innovative in-house IoT system at Micron, designed to monitor and analyze unusual activity in manufacturing equipment. This implementation has improved up time by 90% and prevention of potential part failures by 40%, and significantly optimizing manufacturing efficiency.

Thermal units recovery (Micron, 2022) This is part of cost reduction project which recovery of heater units from the manufacturing tool. In order to send vendor to repair, formulate the proper standard operation procedure to recover multiple heater units. This project brings down the annual 300k$ budget of operation.

Distance estimation (George Brown, 2024) This is the work integrated project. This is supervised classification model to train deep learning model applying multiple different algorithms then benchmark to deploy in the nuclear power plant. The models that used in this program are LSTM, Transformer, CNN to obtain the best model.

Language

Myanmar (Native)
English (fluent and professional)
Kachin (Native)