

Khiw (Q) Nitithadachot

Data Scientist



[linkedin.com/in/getintheq](https://www.linkedin.com/in/getintheq)

kiw.brw@gmail.com

+669-5635-2515

Saimai, Bangkok

About Me

I am a mechanical engineer who has a full passionate in data analytics

I learn everything that necessary in this field

My engineering's experiences will be applied for maximum benefit to your organization

Work Experience



remotasks

AI Training for Thai Writers (Freelancer)

Specific Task: Generative AI Bulba Language Aspirational

Feb 2024 to Present

- Prepare a Thai Language Data for AI Training



Service Development Specialist

Q-CHANG is a home & living digital platform connecting customers with service providers.

Mar 2023 to Jul 2023 (5 months)

- Designed and implemented Standard Operating Procedures (SOPs) for provided services.
- Assigned services from category managers, ensuring crystallization and conclusive decision-making.
- Created standards and work instructions, managing cost negotiations between business and technical teams.
- Led the air aeration service project, initiating it from proposal to the establishment of new standards.
- Forecasted Gross Merchandise Value (GMV) using regression techniques for business partners.
- Summarized Work Instructions (WI) for technical processes, emphasizing efficiency and reasonable rewards.
- Identified and selected a new assurance provider for house cleaning service, utilizing 3 years of data records.
- Employed Python for data cleaning and text sentiment analysis to categorize and cluster service data.
- Generated reports for the assurance provider, facilitating decision-making for a new assurance plan.

Data Science Skills/ Projects:

- Forecasted GMV using regression techniques for business partners by using regression analysis.
- Used Python for data cleaning and sentiment analysis to categorize service data by using text sentiment analysis.
- Employed clustering techniques to separate and analyze data for assurance provider decision-making by using clustering techniques.

Hard Skills:

- Standard Of Procedures (SOPs) or Work Instruction Design .
- Business Negotiation.
- Data science technique consist of data cleaning, regression analysis, text sentiment analysis
- Project Management.
- Python Programming

Soft Skills:

- **Decision-Making:** Demonstrated ability to make conclusive decisions in the crystallization of services.
- **Communication:** Effectively communicated with category managers, business partners, and technicians.
- **Leadership:** Led the air aeration service project from initiation to implementation.
- **Problem-Solving:** Developed solutions for data categorization and clustering challenges.
- **Team Collaboration:** Worked collaboratively with cross-functional teams to implement new standards.

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Work Experience



Management Trainee, TOA KEA NOI #12

12th Future Leader Developing Program FLP #12 | Charoen Pokphand Leadership Institute | C.P. Food Packaging Co., Ltd | 7-11 All Cafe's Cups

Sep 2022 to Mar 2023 (6 months)

- Orchestrated the optimization of a 24-cavity stack mold, enhancing its capacity to 300,000 pieces/day and focusing on Overall Equipment Efficiency (OEE) for waste reduction and cost-effectiveness.
- Initiated and executed projects to address abnormal factors in OEE, ensuring continuous improvement and operational excellence.
- Exceeded project goals with a sales increase of 2.9 million Baht and a cost reduction of 3 million Baht, resulting in a gross profit of 2.9 million Baht.
- Implemented a tele-sales strategy, leveraging Python programming with the Google Maps API to streamline market observation.
- Acted as a representative and reporter for the Food Packaging Business Unit at CPLI events, a global stage assembling all staff in the Future Leader Developing Program 12. Developed and presented a Power BI dashboard for effective data visualization and reporting.
- Participated in numerous professional development classes covering negotiation skills, business model canvas design, and stress management. This preparation is aimed at evolving into a future senior executive, showcasing a commitment to continuous growth.
- Reported directly to the C.P. Shareman Executive, providing regular updates on project progress and outcomes.

Relavant Skill/ Projects:

- Utilized Python and the Google Maps API for targeted data scraping, revolutionizing tele-sales efforts.
- Created and maintained a Power BI dashboard for effective data visualization and reporting.

Hard Skills:

- Project Management
- Engineering Process Optimization (24-Cavity Stack Mold, 300,000 pieces/day)
- Proactive Project Initiation for OEE Improvement
- Cost Reduction Strategies
- Power BI Dashboard Design and Creation
- Python Programming for Data Scraping (Google Maps API)

Soft Skills:

- **Communication:** Clear and effective communication, both verbal and written and active listening to understand and respond appropriately.
- **Teamwork:** collaborating seamlessly with others to achieve common goals and valuing and respecting diverse opinions within a team.
- **Adaptability:** Flexibility and openness to change in various situations and ability to thrive in dynamic and evolving work environments.
- **Problem-Solving:** Analytical thinking to assess situations and find effective solutions and creative problem-solving to address challenges innovatively.
- **Leadership:** Inspiring and guiding others toward achieving shared objectives and taking initiative, making decisions, and assuming responsibility.

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Work Experience



Operational Nuclear Engineer

Thailand Institute of Nuclear Technology (Public Organization) or TINT is the organization responsible for implementing research and development, providing services, and transferring knowledge on the utilization of nuclear technology in the areas of agriculture, industry, medicine as well as environment. Our main missions are listed as follows.

Nov 2021 to Jul 2022 (9 months)

- Pioneered the development and management of comprehensive maintenance systems for radiopharmaceutical production, ensuring meticulous compliance with ISO9001 and GMP standards.
- Specialized in the maintenance of Water for Injection (WFI) and Purified Water (PW) systems, incorporating advanced data science techniques for proactive preventive maintenance.
- Spearheaded the initiation and oversight of computerized systems, diligently sourcing suppliers that meet rigorous GMP standards.
- Authored comprehensive work instructions and safety protocols, providing detailed guidance for the handling of radiation-emitting equipment, notably the I-131 capsule drug synthesizer.
- Maintained a steadfast commitment to overseeing HVAC and cleanroom parameters, guaranteeing steadfast compliance with ASHRAE and GMP standards.

Relevant Skills/ Projects:

- Applied sophisticated data cleaning methodologies to facilitate robust fraud detection and outlier analysis.
- Leveraged data science methodologies for an in-depth analysis of abnormal biological parameters in the radiopharmaceutical production process, contributing to the enhancement of preventive maintenance strategies.

Hard Skills:

- Proficient in the intricacies of maintenance engineering for radiopharmaceutical production, with a strong emphasis on compliance and documentation (ISO9001).
- Demonstrated advanced data analysis skills, particularly in the application of data science techniques for preventive maintenance planning.
- Extensive experience in the evaluation, selection, and seamless implementation of computerized systems, ensuring alignment with GMP standards.
- Expertise in supplier management, with a focus on securing partnerships that guarantee GMP compliance.
- In-depth oversight of HVAC and cleanroom parameters, with an unwavering commitment to meeting and exceeding industry standards.

Soft Skill:

- **Leadership:** Led the establishment of maintenance systems, ensuring ISO9001 and GMP compliance. Successfully introduced computerized systems, showcasing effective leadership.
- **Communication:** Developed clear instructions and protocols, facilitating the safe operation of radiation equipment and enhancing communication across production systems.
- **Adaptability:** Managed diverse responsibilities, adapting to dynamic challenges in radiopharmaceutical production for seamless integration of new technologies.
- **Proactive Problem-Solving:** Proactively addressed production issues using data science techniques and implemented corrective actions for HVAC and cleanroom deviations.
- **Team Collaboration:** Collaborated with teams and suppliers, contributing to the evaluation and selection of GMP-compliant computerized systems. Focused on fostering a cohesive work environment.

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Work Experience

Arçelik

HITACHI
Home Appliances

Mechanical Design Engineer

Hitachi is devoted to making you proud for generations by delivering premium and innovative home appliances crafted to stand the test of time, making your family's life one of ease.

Jan 2021 to Jul 2021 (7 months)

- Reviewed and revised user manuals, addressing customer complaints and ensuring adherence to company standards.
- Initiated and led projects for production cost reduction, utilizing Pareto techniques for optimal part selection.
- Applied advanced mechanical design skills, using ANSYS and Moldex3D for stress, fatigue, and plastics injection analysis.
- Oversaw prototype testing, collaborating with a Japan lab for vacuum condition, drop, and packing tests.
- Redesigned the vacuum compartment for the transition from HITACHI FBF640 to HITACHI FBF720.
- Utilized CAD software for 3D drawing and contributed to the design process until a necessary resignation due to personal reasons.

Hard Skills:

- Mechanical design using CAD software.
- Stress and fatigue analysis using ANSYS.
- Plastics injection process analysis with Moldex3D.
- Project initiation and cost reduction strategies.
- Prototype development and testing.

Soft skills:

- **Adaptability:** The ability to adapt to changing circumstances, tasks, or responsibilities is essential. Adaptable individuals can navigate diverse projects, industries, or team dynamics, contributing to the overall success of the organization.
- **Attention to Detail:** Meticulous attention to detail ensures accuracy and quality in tasks such as reviewing and revising user manuals, managing projects, and conducting analyses. This skill is vital for maintaining high standards in work output.
- **Communication Skills:** Clear and effective communication is crucial in conveying ideas, collaborating with team members, and reporting findings to team leads. Strong communication fosters a positive and productive work environment.
- **Problem-Solving Skills:** The capacity to identify challenges, analyze root causes, and propose effective solutions is a valuable soft skill. Problem-solving skills contribute to overcoming obstacles in various aspects of work, from design improvements to cost reduction projects.
- **Team Collaboration:** Success in any role often relies on collaboration with others. Being a team player, actively contributing ideas, and working cohesively with colleagues enhances overall team performance and fosters a positive and supportive workplace culture.

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Work Experience



Mechanical Site Engineer

A mechanical contracting company with all-around engineering knowledge and experience in construction and maintenance

Jun 2019 to Jan 2021 (1 year 8 months)

- Prepared post-bidding documentation for EPC project at Bangchack Refinery.
- Categorized piping by size and material, detailing welding processes for each joint.
- Acted as QC Welding Engineer, ensuring adherence to American Society of Mechanical Engineers (ASME) Section IX.
- Qualified welders per ASME Section IX standards and managed Welding Procedure Specification (WPS) and Welding Procedure Qualification (WPQ).
- Controlled joint fit-up and liaised with owner's inspectors pre-welding.
- Oversaw project schedule, guaranteeing on-time completion.
- Developed 3D pipeline as-built drawings, applying ASME standards and utilizing AutoCAD Plant 3D.
- Applied coating standards from surface preparation to acceptance.
- Checked tank foundation levels to prevent corrosion, producing comprehensive post-pressure test reports.

Hard Skills:

- ASME Section IX Welding Inspection
- Non-destructive examination techniques (ASME Section V)
- Spreadsheet analysis
- CAD drafting (2D and 3D)
- Schedule control and coordination with fabrication shops
- WPS and WPQ management
- ASME Section IX and Section V application, AutoCAD Plant 3D proficiency
- Pressure testing and final equipment testing

Soft Skill:

- Communication: Ability to convey ideas clearly and effectively, active listening to understand others' perspectives and clear and concise written communication for documentation and reports.
- Attention to Detail: Thoroughness in reviewing and analyzing work, precision in joint fit-up and welding inspection processes, commitment to producing accurate and error-free documentation.
- Time Management: Efficiently managing project schedules to meet deadlines, prioritizing tasks and optimizing time for maximum productivity and consistently delivering work on time and within specified timelines.
- Problem Solving: Analyzing issues and identifying effective solutions, flexibility and adaptability in addressing unexpected challenges and proactive approach to troubleshooting and resolving problems.
- Team Collaboration: Working effectively in a team environment, collaborating with various stakeholders, including inspectors and fabrication teams and contributing positively to group dynamics and fostering a cooperative work culture.

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Education History



Bachelor of Engineering in Mechanical Engineering

Institution: Naresuan University *Year of Graduation: 2019 (1st Honors)*

- Master of ceremony.
- Welfare and Nursing Staff in freshman's camp.
- Faculty's Tutor.

Volunteer Work, Awards, Affiliations, and Interests



Generative AI for Data Scientists Specialization

Summary: This IBM specialization, issued in Jan 2024, focuses on Prompt Engineering, Open-Source Generative AI, and various aspects of AI and Machine Learning within the domain of Data Science.

Issuer: IBM

Issued: Jan 2024

Skills: Prompt Engineering, Open-Source Generative AI, Artificial Intelligence (AI), Data Science, Generative AI, Machine Learning



Getting Started with Generative AI API Specialization

Summary: Codio issued this specialization in Jan 2024, providing foundational knowledge in Computer Science, Computer Graphics terminology, AI, and Python programming, with a focus on Generative AI APIs.

Issuer: Codio

Issued: Jan 2024

Skills: Computer Science, Glossary of Computer Graphics, Artificial Intelligence (AI), Computer Programming, Python (Programming Language)

Prompt Engineering Specialization

Summary: Vanderbilt University awarded this specialization in Jan 2024, emphasizing skills in Prompt Engineering, Generative AI, and advanced data analysis using ChatGPT.

Issuer: Vanderbilt University

Issued: Jan 2024

Skills: Prompt Engineering, Generative AI, ChatGPT, ChatGPT Advanced Data Analysis



CERTIFICATE OF COMPLETION - CP LEADERS DEVELOPMENTS PROGRAM 12

Summary: Issued by Charoen Pokphand Group Co.,Ltd. in Mar 2023, this certificate covers a diverse skill set, including Microsoft Power BI, business ownership, project management, problem-solving, Python programming, colab, data analysis, business development, and machine learning.

Issuer: Charoen Pokphand Group Co.,Ltd.

Issued: Mar 2023

Skills: Microsoft Power BI, Business Ownership, Project Management, Problem Solving, Python (Programming Language), Colab, Data Analysis, Business Development, Injection Molding, Food Packaging, Machine Learning



Data Engineering Certification

Summary: Awarded by Datacamp on Aug 30, 2023, this certificate validates comprehensive skills in Python, SQL, and Git for data engineering. The course covers interacting with relational databases, querying, input, and data modification, along with hands-on experience in importing and cleaning data in Python. It also emphasizes code optimization for efficiency and the implementation of tests for code validation.

Issuer: Datacamp

Issued: Aug 30, 2023

Skills: Python, SQL, Git, Relational Databases, Data Querying, Data Modification, Data Importing, Data Cleaning, Code Optimization, Code Testing



Data Science Essential #7

Summary: Issued by Botnoi Consulting in Oct 2022, this certificate attests to skills in Data Analytics and Machine Learning, covering prediction models, trend forecasting, customer segmentation, contextual marketing, recommendation systems, and anomaly/fraud detection.

Issuer: Botnoi Consulting

Issued: Oct 2022

Skills: Data Analytics, Machine Learning, Prediction models, Trend forecasting, Customer Segmentation, Contextual & Personalise marketing, Recommendation system, Anomaly & Fraud detection