



JIRAYUT LOUNGNA

System Analyst

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PROFESSIONAL SUMMARY

Recent Computer Science graduate from King Mongkut's Institute of Technology North Bangkok, with expertise in Python and JavaScript. Experienced in Data Analysis, including data processing, Pivot Table analysis, and large dataset management. Developed a Machine Learning-based project to analyze Thai song genres from lyrics using Python and NLP techniques. Passionate about advancing in Frontend and Backend Development, aiming to build efficient

CORE COMPETENCIES

- Frontend Development: ReactJS, HTML, CSS, JavaScript, Responsive Web Design, UI/UX Principles
- Backend Development: Python, Node.js, Flask, FastAPI, RESTful APIs
- Database Management: MySQL, SQL, Database Design
- Programming Languages: Python, JavaScript, Java, C, C++, SQL, HTML
- Data Analysis & ML: Python, Machine Learning (ML), NLP, Excel Pivot, Data Visualization,
- Tools & Platforms: GitHub, Jira Software, Postman, Kubernetes
- System analyst : Requirement, Flow chart, System design, ER - Diagram, SDLC, SRS

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science

Department of Computer Science and information Science, King Mongkut's University of Technology North Bangkok **2020-2024**

WORK EXPERIENCE

- **CYBER CRIME INVESTIGATION BUREAU (internship) IT Support**

Experienced in System Analysis and IT Support, with responsibilities including the analysis of large-scale datasets (Big Data Analysis) to support cybercrime investigations for government agencies. Gathered user requirements, conducted in-depth data analysis using tools such as Pivot Tables, and designed initial information systems architecture. Created technical documentation including Flowcharts, ER-Diagrams, System Designs, and System Requirement Specifications (SRS) to guide strategic decision-making for the command center. Also provided technical support and maintained IT systems to ensure optimal operational efficiency.

- **GRADUATE PROJECT**

Thai Music Emotion Analysis Web App

Developed a full-stack web app to classify emotions (Happy, Sad, Angry, Love) in Thai song lyrics using NLP and ML.

- Built and fine-tuned Thai sentiment models with TensorFlow for high-accuracy emotion detection.
- Integrated Spotify API to analyze lyrics from 30,000+ Thai songs using Flask/FastAPI.
- Designed frontend with ReactJS for a responsive, user-friendly UI.
- Deployed on Google Cloud (Compute Engine, Cloud Storage, Cloud Functions) for scalability and performance.

ADDITIONAL INFORMATION

Certifications: Design Prototype with figma - Pratical Traning Course, presentation by King Mongkut's University of Technology North Bangkok

Awards: goIT (Gen 1) 1st runner up It is an innovative design related to iot and environment using Figma and System Architecture work shop by Tata Consultancy Services (Thailand) Limited

Interests & hobbies : Listen to Tech Podcasts for regular updates on your tech knowledge.

Continuous Learner: Certified Red Team Analyst & Blue Team Fundamentals CW Labs Pvt. Ltd.