APINUNCHAI WITTHAYANUKRAO

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SUMMARY

Mathematics with Science student at King Mongkut's University of Technology North Bangkok with a GPAX of 3.76. Passionate about Data Engineering and Full Stack Development. Possesses a strong foundation in Applied Mathematics, Machine Learning, and Algorithms. Skilled in Python, C#, and SQL. Seeking an internship to leverage technical skills in real-world data pipelines and software development projects.

EDUCATION

Bachelor of Science in Mathematics with Science   **2023 – Present**

- University: King Mongkut's University of Technology North Bangkok (KMUTNB)
- GPA: 3.76
- Relevant Coursework: Linear Algebra, Calculus, Statistics, Discrete Mathematics, Ordinary Differential Equations (ODE), Numerical Methods, Machine Learning, Data Mining, Database Systems (DBMS), Data Structures & Algorithms, Object-Oriented Programming (OOP), System Analysis (SA), Data Communication & Networks.

ACADEMIC PROJECTS

River Flooding Forecasting & Anomaly Detection (Seminar Project)
- Applied Mathematical Modeling and Deep Learning (LSTM/RNN) to forecast river water levels and detect anomalies.
- Utilized Numerical Methods to process hydrological time-series data, achieving high prediction accuracy.
- Integrated knowledge of ODE to understand physical water flow dynamics alongside data-driven approaches.

Real-Time Chat Application
- Developed a real-time messaging app using Socket Programming concepts learned in Data Communication & Networks class.
- Implemented TCP/IP protocols to manage concurrent user sessions and reliable message delivery.
- Applied Data Structures (Queues) to buffer messages and optimize data flow efficiency.

Online Shoe Store (Web Application)
- Designed and built a full-stack e-commerce platform using React, TypeScript, and Tailwind CSS.
- Applied Design Thinking and System Analysis (SA) to create a user-friendly UI and robust database schema.
- Managed product inventory and transactions using a relational database (DBMS principles).

ADDITIONAL INFORMATION

- **Technical Skills: Python (Data Mining/ML), C#, JavaScript, TypeScript, SQL, React.js, Node.js.**
- **Mathematical Skills: Mathematical Finance, Mathematical Algorithms, Modeling, Statistics.**
- **Soft Skills: Critical Thinking, Problem Solving, Adaptability, Design Thinking.**
- **Languages: Thai (Native), English (Conversational - B1).**