APINUNCHAI WITTHAYANUKRAO

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SUMMARY

Mathematics with Computer 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 Computer 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

REAL-TIME CHAT APPLICATION
- Developed a real-time messaging system using Socket Programming and TCP/IP protocols.
- Implemented concurrent user handling and optimized message buffering using Queue data structures.
- Designed a reliable server-client architecture ensuring low-latency communication.

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).

C# GAME DEVELOPMENT PROJECT
- Designed and developed a game using raw C#, demonstrating a deep understanding of Object-Oriented Programming (OOP) principles (Inheritance, Polymorphism, and Encapsulation).
- Implemented custom algorithms for core game mechanics, including collision detection, physics calculation, and state management without relying on external game engines.
- Optimized memory usage and performance by designing efficient data structures to manage game entities and the rendering loop.

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).**