Pattakit Charoensedtakul

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EDUCATION

Georgia Institute of Technology – Atlanta, GA *May 2028*
Bachelor of Science in Computer Science

The Newton Sixth Form – Bangkok, Thailand *June 2024*
GPA: 3.94/4.00

SKILLS

Languages: Python, C++, JavaScript, HTML, CSS, SQL, Java
Tools: AWS Cloud Computing Services, Jupyter Notebooks, Apache Airflow, Docker, Scrum/Agile, Next.js, Flask

WORK EXPERIENCE

Assistant Data/AI Department Manager, *LearnCloud* – Bangkok, Thailand *August 2023 – August 2024*
- Managed a team of **10+** Data Scientists, Data Engineers, Data Analysts, and Interns using JIRA as a managing tool
- Generated English exam questions such as TOEIC and TGAT (Thai General Aptitude Test) using various LLMs such as RoBERTa, T5, GPT, and Llama
- Utilized various AWS Services such as S3, SageMaker, RDS to store data and fine-tune RoBERTa LLM for question augmentation through word replacement
- Created ETL pipelines for data transfer of over **100,000** rows of data between MSSQL databases and departments using Apache Airflow

Platform Engineer, *Big Data Big Impact | Protein Synthesis* – Georgia Tech *August 2024 – Present*
- Designing application's backend architecture with AWS Cloud Computing as the underlying services
- Utilizing Hugging Face to run protein synthesis model inference and perform protein synthesis simulations

Mentor/Coach, *VEX Robotics Competition* – Dallas, TX *January 2023 – April 2023*
- Placed **11th** internationally amongst 34,000 participating students from 50+ countries
- Mentored Juniors in robotic design and programming in Python and C++
- Designed and Prototyped Robots to complete tasks such as collecting discs from a closed dispenser and precisely shooting discs across a field

PROJECTS

Chatbot Application *August 2024*
- Utilized Next.js as a framework and PostgreSQL as the database to create a chatbot application
- Deployed the application with AWS EC2 as the host server and AWS Route 53 as the DNS
- Utilized AWS Bedrock's API for Mistral LLM invokes and Pinecone for Retrieval Augmented Generation

Pantry Management Application *July 2024*
- Created a pantry management application using Next.js as a framework for both front-end UX and back-end APIs
- Utilized Google Firebase as an object-oriented database

LEADERSHIP AND COMMUNITY ENGAGEMENT

Team Leader, *World Robotics Olympiad* – Bangkok, Thailand
- Placed 4th across Thailand amongst 180 participating students *2021*
- Placed 10th across Thailand amongst 240 participating students *2022*
- Placed 8th across Thailand amongst 240 participating students *2023*
- Designed and Prototyped Robots to complete complex tasks such as precisely placing cubes on elevated planes and differentiating the colors of different objects

Participant, *Thailand Olympiad in Informatics* – Bangkok, Thailand *August 2022 – May 2023*
- Studied Data Structures, Algorithms, and Competitive Programming Techniques
- Achieved a placement in the top 0.7% of participants

ADDITIONAL SKILLS AND INTERESTS

Languages: Fluent in **English** and **Thai**; Intermediate in **Chinese**
Interests: Travelling, Gaming, Competitive Programming