Jirayu Klinudom

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ABOUT ME

I'm a graduate computer science student from the Faculty of Information and Communication Technology at Mahidol University. I specialize in Natural Language Processing (NLP) and web development with React.js and .NET Blazor, Node.js, Flask, FastAPI, and C#. I also have experience using Docker for deployment. I'm seeking opportunities to apply and enhance my web application development and artificial intelligence skills.

EDUCATION

Mahidol University   **Aug 2020 - July 2024**
Bachelor's Degree, Faculty of Information and Communication Technology (ICT)
Computer Science, First Class Honors

Assumption College Sriracha   **May 2017 - March 2020**
High School Diploma - Grade 10 & 12

Tower Grove Christian Academy, St. Louis, USA   **Sep 2018 - May 2019**
Exchange Student - Grade 11

EXPERIENCE

MFEC Public Company Limited   **May 2024 - Oct 2024**
Developer Internship - Corporate Strategy Planning and Management
- Fine-tuned local large language models using LoRA techniques, and assisted in evaluating their performance.
- Developed a Streamlit web app for generating datasets focused on fine-tuning LLMs with Retrieval-Augmented Generation (RAG).
- Developed a React.js and FastAPI app leveraging RAG and LLMs to align resumes with job openings, score applicants for efficient hiring, and match relevant job opportunities based on resumes.
- Deployed an autobuild with Gitea, revamped the user interface, and upgraded the PoC project into a fully functional application using Svelte for the frontend and PocketBase for the backend and database.

Bremen Spatial Cognition Center (BSCC), Germany   **May 2023 - Jul 2023**
NLP Research Intern
- Collaborated closely with Dr. Mihai Pormalan to gain expertise in Natural Language Processing (NLP).
- Created a machine translation from human instructions to robot commands for navigational purposes.
- Prepared the EGGNOG dataset and focused on gesture annotations for model training.
- Developed a language model to anticipate intentions based on gesture annotations with PyTorch.

Mahidol's One Stop Service   **Dec 2022 - May 2023**
ASP.NET Core Blazor Developer
- Utilized ASP.NET Core Blazor for the front-end development, MudBlazor for a component library, and C# for the back-end, creating controllers to handle various APIs.
- Worked together with a UX/UI designer to create a functional and operational front-end interface.

SKILLS

Technical
- Python (Numpy, Pandas, PyTorch, Keras, TensorFlow, Streamlit, FastAPI, Flask), JavaScript, C, C#, HTML, CSS, TailwindCSS, React.js, Svelte, .NET MVC, Blazor, Next.js, Node.js, PocketBase, Express.js, PostgreSQL, MySQL, Deep Learning, Machine Learning, NLP, Generative AI, RAG, Embeddings, Docker

Personal
- Public Speaking, Positive Mindset, Presentation Skills, Work Ethic, Comprehension, Logic

LANGUAGES

English - Working Proficiency
> IELTS 6.5 (2020)
> Listening: 6.0
> Reading: 7.0
> Writing: 6.0
> Speaking: 7.0

Thai - Native Proficiency

Chinese - Elementary Proficiency

CERTIFICATES

- Meta - Advanced React   [Jan 2024]
- IBM - Back-End Apps Development with Node.js and Express   [Jan 2024]
- IBM - Front-End Apps Development with React   [Jan 2024]
- IBM - Introduction to Web Development with HTML, CSS, JavaScript   [Jan 2024]
- University of Michigan - Database Design and Basic SQL in PostgreSQL   [Jan 2024]
- University of Michigan - Intermediate PostgreSQL   [Jan 2024]
- PyImageSearch - Deep Learning   [May 2024]
- PyImageSearch - Natural Language Processing   [May 2024]
- DeepLearningAI - Generative AI with Large Language Models   [May 2024]
- DeepLearningAI - Introduction to TensorFlow for AI, ML, and DL   [May 2024]
- Google Cloud Skill Boost - Natural Language Processing on Google Cloud   [May 2024]
- Google Cloud Skill Boost - Introduction to Generative AI Learning Path   [May 2024]
- IBM - Python for Data Science, AI & Development   [Sep 2024]
- IBM - Databases and SQL for Data Science with Python   [Sep 2024]
- Hackerrank - SQL (Basic) Certificate   [Oct 2024]
- Hackerrank - SQL (Intermediate) Certificate   [Oct 2024]

RELATED PROJECTS

- CareerMatch (MFEC Internship Project)
- Dataset Generator for Fine-tuning LLMs that uses RAG (MFEC Internship Project)
- Thai2ThSL Machine Translation with Neural Network (Senior Project)
- Predicting Intentions through Body Movement Annotations (BSCC Internship Project)

HOBBIES AND INTERESTS

- New Technology
- Reading
- Artificial Intelligence
- Natural Language Processing (NLP)
- Languages
- Web Programming

REFERENCE

- Wason Liwlompaisan, Chief Technology Officer (CTO) at MFEC Public Company Limited – Direct supervisor during my internship.