Phongsathorn Kittiworapanya

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Google Scholar: Phongsathorn Kittiworapanya

EDUCATION

Bachelor of Science in Information Technology (First-Class Honors) — May 2017 – May 2021
Minor in Software Engineer, King Mongkut's Institute of Technology Ladkrabang — *Bangkok, Thailand*
- **GPA**: 3.78/4   • **TOEIC**: 725

Exchange Student — June 2019 – July 2019
Kurume National College of Technology — *Fukuoka, Japan*
- Scholarship from JASSO.

PROFILE

Passionate Software Development Engineer with 3+ years of experience in full-stack development, blockchain, and AI. Skilled in building Web3 ecosystems, designing smart contracts, and applying data science methodologies. Blends a strong research background with hands-on industry experience to create cutting-edge, innovative solutions.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Solidity, C, SQL, PHP
Frameworks: React, React Native, Next.js, Vue.js, Django, Flask, Nest.js, Express.js, Laravel, OpenCV, PyTorch, TensorFlow, scikit-learn
Tools: Git, Docker, Bash, PostgreSQL, Selenium, Playwright, AWS, Kafka

EXPERIENCE

Blockchain Developer — July 2024 - Present
AI and Robotics Ventures Co., Ltd. (Tech Venture of PTTEP) — *Bangkok, Thailand*
- Led the development of SECURE by Primular Wallet app, a secure mobile blockchain wallet app built from the ground up to manage ARV ecosystem tokens, including carbon credit.
- Led R&D initiatives in Web3 technology, with a focus on implementing self-sovereign identity on public blockchains and developing advanced cryptographic key encryption solutions for enhanced security.
- Tools/Coding: React, React Native, Solidity, Apache Kafka, AWS, JavaScript/TypeScript, PostgreSQL

Software Development Engineer — Nov 2022 - July 2024
AI and Robotics Ventures Co., Ltd. (Tech Venture of PTTEP) — *Bangkok, Thailand*
- Primarily focused on developing micro-service and blockchain-driven technologies
- Led R&D initiatives in Web3 technology, focusing on self-sovereign identity implementation on public blockchains and secure cryptographic key encryption.
- Developing smart contracts using Solidity
- Developing software including front-end, back-end, and cross-platform mobile apps using React Native.
- Integrating event sourcing and event-driven architecture with blockchain systems to enable seamless interactions and enhance real-time processing.
- Tools/Coding: Docker, Apache Kafka, AWS, Python, JavaScript/TypeScript, PostgreSQL

Full-Stack Developer — May 2022 – Sept 2022
Anodaz Games Co., Ltd. — *Bangkok, Thailand*
- Developed Web3 ecosystem on EVM blockchain using Solidity.
- Built responsive front-end interfaces using React.js and Next.js.
- Designed and implemented database structures and API services for efficient off-chain data management.

Data Science (Intern) — June 2020 – July 2020
KASIKORN Business-Technology Group (KBTG) — *Bangkok, Thailand*
- Won **"The Best Overall Performance"** prize from KBTG.
- Collaborated with the Thai Natural Language Processing (Thai NLP) team.
- Researching the improvement of Thai query correction for optimized internal search engine.
- Built TF-IDF search engine and query correction for the company's internal search system using Python.
- Built documents indexing tool using Django Rest Framework and Vue.js.
- Published academic paper: *"Survey of query correction for Thai business-oriented information retrieval"* (DOI: 10.1109/iSAI-NLP51646.2020.9376809)

Research Assistant — Aug 2020 – Present
King Mongkut's Institute of Technology Ladkrabang — *Bangkok, Thailand*
- Researching in fields of Deep Learning & Computer Vision and Machine Learning optimization for applying to real-world application.

- Collaborated with Data Science & Machine Learning Research Laboratory with an academic advisor: *Kitsuchart Pasupa.*
- Using AI tools: TensorFlow, Pytorch, Numpy, Pandas, OpenCV, MatplotLib, scikit-learn.

Application Developer   Mar 2017 – May 2017
Government House of Thailand   *Bangkok, Thailand*
- Developed and delivered a Document Management System for the Thai Government to store conference documents and presentations.
- Developed and integrated a cloud storage application using NextCloud.
- Tools/Coding: Laravel, PHP, Javascript

RESEARCH PUBLICATIONS

Particle Size Estimation in Mixed Commercial Waste Images Using Deep Learning   2021
The 12th International Conference on Advances in Information Technology
Evaluation of Deep Learning Algorithms for Semantic Segmentation of Car Parts   2021
Springer International Publishing
An Image Segment-based Classification for Chest X-Ray Image   2020
Proceedings of the Eleventh International Conference on Computational Systems-Biology and Bioinformatics
Survey of Query correction for Thai business-oriented information retrieval   2020
2020 15th International Joint Symposium on Artificial Intelligence and Natural Language Processing

HORNOR & AWARDS

2024 BNB Hack Day Q3 - Final Round   2024
BNB Hack Day Q3   *Bangkok, Thailand*
- Led Brick'NBlock team to the final round of a competition.
- securing a spot in the finals with a $5,000 prize pool.

The Best Overall Performance   2020
KBTG Internship Bootcamp 2020 (Data Science)   *Bangkok, Thailand*
- Won highest prize award from this program.
- Researching on the improvement of Thai query correction for optimized internal search engine.

Honorable Mention Award   2020
National Software Contest (NSC) 2020   *Bangkok, Thailand*
- Developed the "Automatic Heat Detection of Cattle in Video", also known as *"CowXNet"*.
- Won the award in track of *Data Science and Artificial Intelligence Application*.

Singapore In-Country Stage   2018
CIMB 3D Conquest (Coding Track) 2018   *Singapore*
- Become a representative of Thailand on the Coding Track team to compete in Singapore.

Special Prize   2018
NAPROCK 10th International Programming Contest   *Tokushima, Japan*
- A representative team of Thailand.
- Developed the classroom analytic platform called *"Classnalytic"* by using the Computer Vision techniques.

CERTIFICATIONS

Fundamentals of Deep Learning for Computer Vision   June 2020
Fundamentals of Deep Learning for Multiple Data Types   *NVIDIA Deep Learning Institute*