Krittanai Peanjaroen

Mobile: (+66) 89-197-2933 Email: krittakrub@proton.me

LinkedIn: https://www.linkedin.com/in/krittanai-peanjaroen/

Education **Expected Graduation May 2025**

Mahidol University
The Bachelor of Science in Information and Communication Technology

Experiences

Full-stack developer **January 2024 - present**

Mebit Co., ltd. – Bangkok, Thailand

- Developed a Bitcoin wallet software with customizable withdrawal conditions using Rust and the "bdk" library. Implemented advanced scripting features, including weighted multi-signature schemes and time-locked transactions, to enhance security and control over funds.
- Developed and deployed a web application using React framework on Node.js, managing the entire deployment process on AWS EC2 instance. Configured Route53 for domain name resolution and ensured seamless website accessibility.

Full-stack developer, **Translator** **July 2022 - present**

Rightshift Co., ltd. – Bangkok, Thailand

- Developed and maintained an e-commerce website with integrated blog functionality using WordPress. Implemented a Bitcoin donation system with PHP to facilitate payments to writers, ensuring efficient data management and storage optimization. Deployed and managed the website and domain on AWS, utilizing EC2, RDS, and Route 53.
- This project utilizes OpenAI's Whisper API for real-time speech-to-text transcription and Google Translate API for language translation, all implemented in Python. This system is ideal for live events where immediate transcription and translation are crucial for accessibility and multilingual audience engagement.
- Installed, managed, and maintained company servers, including the installation and configuration of various applications and services using Docker and WSL. This encompassed diverse server roles such as RTMP server, media server, and Bitcoin node, ensuring efficient operation and resource utilization.
- Translated various books and articles, and wrote technical articles on finance, banking, and Bitcoin.

Research and development **May 2024 – August 2024**

Ritsumeikan University, Information Science and Engineering, advanced system laboratory – Osaka, Japan

- Designed and implemented a ransomware recovery system leveraging eBPF technology (written in C) and the NILFS2 file system. Developed a Python-based backup mechanism to ensure data restoration in case of an attack. This system provides a robust solution against ransomware threats by enabling efficient data recovery and minimizing downtime.

Project & Activities

- **RPC-Scavenger-Hunt**
  - **Automated Bitcoin Wallet Creation:** Developed a shell script to automate the creation of Bitcoin wallets, leveraging bitcoin-cli commands for key pair generation and address management. This streamlined the wallet creation process and improved efficiency.
  - **Bitcoin Blockchain Exploration Script:** Wrote a shell script to extract data from the Bitcoin blockchain using bitcoin-cli and jq. Implemented functionalities to retrieve block information, transaction details, and other relevant blockchain data for analysis and reporting.
  - **Test Case Development and Automation:** Developed a comprehensive suite of test cases to validate the functionality and reliability of the Bitcoin wallet and associated code. Automated the testing process using shell scripting, covering scenarios such as wallet creation, transaction processing, and error handling.
- **Lecturer (Bitcoin & Nostr):** A passionate and knowledgeable lecturer specializing in Bitcoin and Nostr technologies. Experienced in delivering engaging presentations and workshops to diverse audiences, including industry conferences and community events.
  - **Speaking Engagements**
    - **Block Mountain 2024 (Keynote Speaker):** Delivered a keynote address on Nostr, exploring its potential applications and opportunities for developers.
    - **Thailand Bitcoin Conference 2024 (Panelist):** Participated in two panel discussions, providing insights on Nostr for beginners and the use of the Lightning Network for merchants.
    - **Blockchain Thailand Genesis 2023 (Workshop Leader):** Led a workshop on Nostr, covering its core functionalities, practical use cases, and development potential.