Sirawit Techavanitch

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EDUCATION

University of the Thai Chamber of Commerce	Bangkok, Thailand
Phd. in Computer Engineering and Financial Technology;	*Aug 2023 – Present*
University of the Thai Chamber of Commerce	Bangkok, Thailand
B.Sc. in Computer Engineering and Multimedia; ***GPA: 3.64/4.00*** *(First-Class Honors)*	*May 2017 – Nov 2020*

SKILLS

Languages: C/C++, Java, Python, Go, JavaScript, TypeScript, SQL, Solidity, MATLAB

Technologies: Node.js, React.js, Vue.js, Hardhat, Ethereum, Bitcoin, Hyperledger, MySQL, MongoDB, Git, Docker, Cloud Services, Argo-CD, Ansible, Helm, Kubernetes, Kafka, RabbitMQ, TensorFlow, Keras, Jupyter Notebook, Google Collab, RISC-V, Arduino, RaspberryPi, Linux includes (RedHat, Fedora, Arch, Manjaro, Ubuntu, Debian)

Methodologies: Agile, Scrum, DevOps, CI/CD

EXPERIENCE

Kiwari Labs

Founder, Software Engineer — *Nov 2024 – Present, Part-time (Remote)*

- Contributing an Open source software.

Entronica Co,.Ltd — Bangkok, Thailand

Software Engineer — *Jul 2024 – Aug 2025, Full-time*

- Design and develop application-specific blockchain for the next-gen loyalty program use case.
- Design and develop an efficient solution for creating a CDRs billing system with blockchain and smart contracts.
- We successfully translated the multi-signature concept into a bilateral agreement and created a high-level syntax that even developers unfamiliar with smart contract programming could use.

Hellfire Security — Chicago, Illinois

Cybersecurity Engineer — *Apr 2023 – Jan 2024, Part-time (Remote)*

- Demonstrate the exploit on the blockchain application.
- Develop a smart contract library for Incident Response (IR).
- Operate and maintain a public blockchain network node.

TMB Thanachart Bank PCL — Bangkok, Thailand

Senior IT Audit Associate — *Jan 2023 – Jul 2023, Full-time*

- Implemented Robotic Process Automation (RPA) for the Continuous Control Auditing (CCA) Project resulted in a reduction of man-days from approximately 90 days of manual process to less than a day, area of working IAM, RBAC, CBS legacy teller system, CMDB/CMS.
- Analysis of problems and incidents for process improvement in the Advisory Project.

Bitkub Capital Holding Group Co.,Ltd — Bangkok, Thailand

Senior Security Engineer — *Aug 2022 – Oct 2022, Full-time*

- Audited and analyzed the smart contract source code to ensure security and compliance.
- Carried out reverse engineering on blockchain applications to pinpoint potential vulnerabilities.

Bitkub Online Co.,Ltd — Bangkok, Thailand

Senior Risk Advisory Associate — *Jan 2022 – Aug 2022, Full-time*

- Involved in auditing blockchain applications.
- Responsible for reproducing and documenting exploit scenarios for blockchain applications in order to enhance security measures.

Advanced Info Service PCL — Bangkok, Thailand

Programmer Analyst — *Aug 2020 – Jan 2022, Full-time*

- Developed backend components for various projects, focusing on scalability and efficiency.
- Performed manual API testing.

PROJECTS

ERC-8047: Forensic Token (Forest) | *Ethereum Improvement Proposals*
- A DAG-inspired token enabling hierarchical token traceability and efficient enforcement for compliance use cases like CBDCs or regulated digital money. It introduces parent–child transaction relationships and supports O(1) enforcement across linked token.

OpenId for Verifiable Credential Server | *Github*
- Minimal RESTful OpenID for Verifiable Credentials (OID4VC) API server supporting issuer, verifier, and holder roles, built with NestJS and Credo-TS (formerly Hyperledger Aries Framework JavaScript).

ERC-7858: Expirable NFTs and SBTs | *Ethereum Improvement Proposals*
- Non-fungible (NFT) and soulbound (SBT) tokens with expiration, supporting time-limited use cases.

ERC-7818: Expirable ERC20 | *Ethereum Improvement Proposals*
- An ERC-20 extension for creating fungible tokens with expiration, supporting time-limited use cases.

Chronograph EVM | *GitHub*
- Explores the design of a 10,000 baht digital wallet by applying relevant ethereum standards, including ERC-6372 and ERC-7818.

Expirable ERC20 UTXO Token | *GitHub*
- Token with the UTXO model and an expiration mechanism.

Tuning Your Smart Contract | *Medium*
- Optimize your smart contract with a solidity optimizer in the right way.

PRNG with Signed Message | *Medium*
- Pseudo Random Number Generator (PRNG) with signed message.

CERTIFICATES

Crypto Currency Certification Consortium (C4)
- Certified Bitcoin Professional (CBP) | *Certificate*
- Certified Ethereum Professional (CEP) | *Certificate*

The Linux Foundation

- LFS176x: Besu Essentials: Creating a Private Blockchain Network | *Certificate*
- LFS114: Introduction to free5GC | *Certificate*

KEY COMPETENCIES

Integrity, Ethics, Researching and Investigating, Personal Motivation

INTERESTED

Philosophy, High Fidelity Audio, Japanese Cuisine, Politic