

# PHUWANAI THUMMAVET

## BLOCKCHAIN SECURITY RESEARCHER

Bangkok, Thailand | +66-80-982-9099 | [mr.thummavet@gmail.com](mailto:mr.thummavet@gmail.com)



<https://www.serial-coder.com>



<https://www.linkedin.com/in/phuwanai-thummavet>



[https://medium.com/@serial\\_coder](https://medium.com/@serial_coder)



<https://github.com/serial-coder>

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## PROFILE SUMMARY

**A lead smart contract auditor with over two years of experience** in reviewing and analyzing smart contract code to identify potential security vulnerabilities and flaws in the contract's logic. I am seeking a new auditor position.

Besides my expertise in the Ethereum domain, **I gained over four years of experience as a developer and consultant in Hyperledger Fabric**, a private/enterprise blockchain. Furthermore, **I got over ten years of experience in Back-end programming** (using JavaScript, Python, Golang, etc.).

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## PROFESSIONAL SKILLS

- Code reviewing and analyzing
- Technical consulting
- Report/article writing
- Software design and development
- Technical research
- Team management
- Bilingual communication (Thai/English)

## TRANSFERABLE SKILLS

- Attention to detail
- Adaptability
- Analytical skills
- Collaboration
- Decision-making
- Problem-solving
- Self-taught

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## EDUCATION

<b>Master of Engineering (Computer Security)</b> Prince of Songkla University (Hat Yai, Thailand)	2011 – 2015
<b>Internship (Research on Next Generation Internet (IPv6))</b> National Ilan University (Yilan, Taiwan)	2008 – 2008
<b>Bachelor of Engineering (Computer Network)</b> Prince of Songkla University (Hat Yai, Thailand)	2006 – 2010

## WORK EXPERIENCE

### Lead Blockchain Security Auditor and Consultant

June 2021 – Present

#### Valix Consulting (Bangkok, Thailand)

- Building the audit team from scratch
- Designing and developing the audit procedures for the company
- Designing and developing software and tools internally used by the audit team
- Being a top-tier smart contract security auditor
  - **My public audit reports** (<https://www.serial-coder.com/misc/my-smart-contract-audit-reports-and-consultations-at-valix-consulting>)  
*The numbers of issues listed below were counted on my public audit reports only.*
    - **Critical issues: 12**
    - **High issues: 41**
    - **Medium issues: 56**
    - **Low issues: 54**
    - **Informational issues: 44**
    - **Total (public) issues: 207** (Last updated: Jun 12, 2023)
- Being a top-tier blockchain technical consultant
  - **Consulting about the security and general programming best practices for:**
    - **Smart contracts**
    - **Off-chain Web3 components** include front-end and back-end services, event/data consumers, etc.
- Managing all technical aspects of the company
- Researching and investigating hack/exploit cases for internal knowledge sharing
- Researching new blockchain technologies for internal knowledge sharing
- Writing the company's Medium articles
  - **Hack Analysis Articles** ([https://medium.com/@serial\\_coder/list/my-definftgamefi-hack-analysis-articles-0cb6b2e9ca11](https://medium.com/@serial_coder/list/my-definftgamefi-hack-analysis-articles-0cb6b2e9ca11))
  - **Series: Solidity Security By Example** ([https://medium.com/@serial\\_coder/list/solidity-security-by-example-series-6f59233bd86a](https://medium.com/@serial_coder/list/solidity-security-by-example-series-6f59233bd86a))
- Performing public speaking

### Chief Technology Officer

Sep 2020 – Sep 2021

#### GridWhiz (Thailand) Co., Ltd. (Bangkok, Thailand)

- Managed teams of software developers
- Designed and developed the company's software and tools (in the energy field)
- Consulted technical solutions to clients and internal teams
- Performed internal knowledge-sharing sessions

## **Blockchain Architect and Developer**

Sep 2020 – Sep 2021

### **GridWhiz (Thailand) Co., Ltd. (Bangkok, Thailand)**

- Was a lead blockchain developer
- Designed and developed a blockchain-based energy trading platform; the platform was built on top of the Hyperledger Fabric (private/enterprise blockchain)
- Consulted blockchain-based technical solutions to clients and internal teams

## **Blockchain and Backend Developer (Part-Time)**

Sep 2018 – Sep 2021

### **KULAP (Bangkok, Thailand)**

- Designed and developed software based on both the Hyperledger Fabric (private/enterprise blockchain) and Ethereum (public blockchain)
- Designed and developed off-chain smart contract data aggregation tools using The Graph
- Consulted blockchain-based technical solutions to clients and an internal team
- Wrote the company's Medium articles
- Performed public speaking

## **Blockchain Architect and Full-Stack Developer**

Jun 2017 – Aug 2020

### **G-ABLE Group (Bangkok, Thailand)**

- Was a lead blockchain developer
- Managed a team of software developers
- Designed and developed blockchain-based software (using the Hyperledger Fabric; private/enterprise blockchain) for clients
- Consulted enterprise blockchain-based technical solutions to clients
- Performed internal knowledge-sharing sessions
- Performed public speaking

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## **EXTRACURRICULAR**

### **Personal Website, <https://www.serial-coder.com>**

- The website gathering almost all my publications

### **Personal Medium, [https://medium.com/@serial\\_coder](https://medium.com/@serial_coder)**

- Gathering my blockchain-related articles, with 574 followers (*Last updated: Jun 16, 2023*)

### **GitHub Repo: "Solidity Security By Example",**

**<https://github.com/serial-coder/solidity-security-by-example>**

- Published 13 vulnerability issues (*Last updated: Jun 13, 2023*)

### **Admin, Facebook page: "Blockchain Security Thailand",**

**<https://www.facebook.com/groups/2506416166158656>**

- The largest group of blockchain security learners in Thailand, with over 960 members (*Last updated: Jun 9, 2023*)

**Group Expert, Facebook page: "Blockchain Developer Thailand",**  
**<https://www.facebook.com/groups/879466468887478>**

- The largest group of blockchain developers in Thailand, with almost 20,000 members  
(*Last updated: Jun 9, 2023*)

**Completed the Ethernaut CTF**

- Solved 29 out of 29 levels (*Last updated: Jun 9, 2023*)