

# Tu Phan

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## EDUCATION & CERTIFICATES

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### ILLINOIS INSTITUTE OF TECHNOLOGY

#### Stuart School of Business

Master of Business Administration (M.B.A.)

*April 2025 - Present*

GPA: 3.9/4

### BARÇA INNOVATION HUB

#### Introduction to Sports Analytics

*February 2025 - November 2025*

Wearable Technology

Grade: 100%

Theoretical Statistical Knowledge of Sports Analytics

Grade: 94%

Art of Communicating The Data

Grade: 88%

Key Performance Indicators

Grade: 100%

Verified Certificate of Approval in Introduction to Sports Analytics

Grade: 100%

### GOOGLE

#### Google Project Management

*March 2025 - April 2025*

Foundations of Project Management

Grade: 97.27%

Project Initiation: Starting a Successful Project

Grade: 99.57%

Project Planning: Putting It All Together

Grade: 99.50%

Project Execution: Running the Project

Grade: 98.88%

Agile Project Management

Grade: 94.50%

Capstone: Applying Project Management in the Real World

Grade: 96.25%

### VIETNAM NATIONAL UNIVERSITY HO CHI MINH CITY

#### Ho Chi Minh City University of Technology

*September 2012 - April 2017*

BE in Computer Engineering

GPA: 7.75/10

Thesis: *Predicting Bitcoin Price by Machine Learning*

Grade 9.5/10

## PUBLICATIONS & APPEARANCES

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- Jacob Creech, Brian Friel, and Tu Phan. *Solana Cookbook*. Vietnamese. Solana Foundation, 2022. URL: <https://solanacookbook.com/vi>
- Duc-Phu Nguyen et al. “Deep Hybrid Models for Forecasting Stock Midprices from the High-Frequency Limit Order Book”. In: *Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications*. Ed. by Tran Khanh Dang, Josef Küng, and Tai M. Chung. Singapore: Springer Nature Singapore, 2022, pp. 393–406. ISBN: 978-981-19-8069-5
- Thang Nguyen-Dinh et al. “A Hierarchical Deterministic Wallet Using Ed25519 Digital Signature Scheme”. In: *Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications*. Ed. by Tran Khanh Dang, Josef Küng, and Tai M. Chung. Singapore: Springer Nature Singapore, 2022, pp. 240–257. ISBN: 978-981-19-8069-5

## STUDYING COURSES & BOOKS

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- Michael A Nielsen and Isaac L Chuang. *Quantum computation and quantum information*. Cambridge university press, 2010
- Andrew Ng and Kian Katanforoosh. *CS230 - Deep Learning*. 2019. URL: <https://cs230.stanford.edu/>
- Dan Boneh. *CS155 - Computer and Network Security*. 2019. URL: <https://cs155.stanford.edu>

- Sanjam Garg. *CS276 - Cryptography*. 2014. URL: <https://people.eecs.berkeley.edu/~sanjamg/classes/cs276-fall14/>
- Andrew Ng. *CS229 - Machine Learning*. 2008. URL: <https://see.stanford.edu/Course/CS229>
- Ran Canetti and Ronald L. Rivest. *6.897 - Selected Topics In Cryptography*. 2004. URL: <http://courses.csail.mit.edu/6.897/spring04/materials.html>
- Lawrence C Washington. *Elliptic curves: number theory and cryptography*. CRC press, 2008

## HONORS & AWARDS

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<b>The Grand Prize</b>	Sui x KuCoin Labs Summer Hackathon, 2023.
<b>The Second Prize</b>	Dora Grant DAO Round 3, 2023.
<b>Honor Grant</b>	Superteam Vietnam Instagrant, 2023.
<b>The Fifth Prize</b>	Solana's Riptide Hackathon, 2022.
<b>The Second Prize</b>	Convergence - Serum & Wormhole Hackathon, 2021.
<b>The Second Prize</b>	Solana's Inaugural Hackathon, 2020.
<b>The Second Prize</b>	Tomochain Hackathon, 2019.
<b>The First Runner-up</b>	State of Chain Hackathon, 2018.
<b>The Consolation Prize</b>	The Olympic in Econometrics and Applications 2017.
<b>The Second Prize</b>	Phu Yen Province Competition in Mathematics for High School Students of 12th Grade, 2012.
<b>The Second Prize</b>	Violympic - Phu Yen Province Internet Competition in Mathematics for Secondary School Students of 9th Grade, 2009.
<b>The Consolation Prize</b>	Phu Yen Province Competition in Mathematics for Secondary School Students of 9th Grade, 2009.

## PROFESSIONAL AFFILIATIONS

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<b>Visiting Lecturer</b>	Blockchain Enabled Business, RMIT, 2024.
<b>Lecturer</b>	Optimistic Rollup Bootcamp, 2024.
<b>Speaker</b>	Viction Horizons, 2024.
<b>Mentor</b>	Build on Viction, 2023.
<b>Panelist</b>	GM Vietnam, 2023.
<b>Speaker</b>	BUIDL Vietnam, 2023.
<b>Advisor</b>	Solana Vietnam Coding Camp - Season II, 2022.
<b>Advisor</b>	Vietnam Web3 Coding Camp - Season I, 2022.
<b>Mentor</b>	KO (Kambria Online) Hackathon, 2021.
<b>Mentor</b>	Kambria Quiz/Code Challenge Series, 2020.
<b>Mentor</b>	#1 Vietnam Blockathon, 2017.

## EMPLOYMENT

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<b>Wallet Engineer</b> <i>Tether</i>	August 2025 - Present
<ul style="list-style-type: none"> <li>· Developing Tether WDK</li> <li>· Authoring Noba - the isometric testing framework, which is widely used in Tether for testing on multiple runtimes (i.e. NodeJS, Bare).</li> </ul>	

## Open-source Contributor

May 2025 - September 2025

*Meteora*

- Contributed to the DAMM v2, Zap program by developing new features, improving the algorithms, optimizing Computing Units and fees.
- Optimized continuous testing by replacing the test validator with LiteSVM, achieving a **60x speedup**.
- Migrated Solana programs to a zero-dependency architecture.
- Developed the Dynamic Staking SDK.

## DevRel Lead

April 2024 - December 2024

*Ninety Eight*

- Led the Web3 Indie Vietnam.
- Developed an MPC Federation.

## CTO/Founder

January 2023 - April 2024

*Desig Protocol*

- Desig is a blockchain-agnostic multisig solution.
- The protocol uses MPC and ZK to conduct a Threshold Signature Scheme in trustless environments.

## CEO/Founder

June 2021 - January 2024

*Sentre Protocol / Descartes Network*

- Sentre Protocol is **an incubation platform** for post-launch projects on Solana, which was **acquired by Ninety Eight** in 2023.
- **3 million USD fundraising** from the leading venture capitalists, namely Coin98 Finance, Fundamental Labs, Gate Labs, Kyros Ventures, Spark Digital Capital.
- The product line ranges from DeFi to PriFi, including some significant brands such as **Project Kylan**, **Lightning Tunnel**, **Balansol**, **InterDAO**, and some others.

## Senior Blockchain/AI/ML Developer

February 2018 - June 2021

*Kambria & Omhnilabs Vietnam*

- Developed **UV Engine**, a web-based editor, to communicate with Ohmni robots for planning and task distribution via ROS.
- Researched and developed a vision-based autonomous navigation, named **Xupr** agent. The agent relies only on RGB-based images to make navigation decisions.
- Built **Following Me**, a system that can track the owner and follow him/her.
- Built **FloorNet** based on the UNet model to segment images into floor and non-floor.
- Proposed **Proof-of-Burn** based on hierarchical deterministic keys. The technique was deployed onto several bridges for cross-chain services, mostly between Ethereum and Binance Chain.
- Developed blockchain applications (e.g., an on-page wallet named **Kambria Wallet**), and secured financial services based on cryptography (e.g. a redeeming service named **Distribution Portal**).
- Designed a protocol named **The Innovation Judge Protocol** in game theory to decentralize the task of judgement.
- Conducted research for a privacy e-voting system based on homomorphic encryption, and mix networks.

## R&D Specialist

October 2017 - February 2018

*Bacoor Vietnam*

- Carried out research on Ethereum's scalability.
- Applied decentralized exchange protocols such as **Lightning Network**, **0x**, **Relay Network**, **Polkadot** and others.

- Integrated the OAuth protocol to **Know-Your-Customers (KYC)** systems.
- Built **AltaPolis**, an exchange service.
- Conducted applications on the distributed pseudo-random number generator, proof of knowledge, and zero-knowledge proof.

## SKILLS

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### Programming Languages:

- **General.** Javascript, Typescript, Python, Rust.
- **Smartcontract.** Solidity, Rust, Circom.

### Project Management:

- **Scrum Agile.** Jira, Notion, Trello.

### Frameworks & Libraries:

- **Web Application:**
  - **Frontend.** NextJS, AngularJS, React Router, Ant Design, Material UI, Shadcn, DaisyUI, TailwindCSS.
  - **Backend.** NodeJS, NestJS, ExpressJS, HonoJS, Rocket.rs, Actix.
- **Blockchain:**
  - **Ethereum.** Geth, Truffle, Hardhat, Viem, Circom.
  - **Solana.** SPL, Anchor, Pinocchio, Solana Kit.
- **Distributed/Parallel System.** libp2p, Ray, IPFS.
- **ML/AI.** Tensorflow, PyTorch, PyBullet.
- **Robotics.** Arduino, ROS.
- **Database:**
  - **SQL.** PostgreSQL, MySQL.
  - **NonSQL.** MongoDB, FaunaDB.
  - **ORM.** Mongoose, DrizzleORM, SeaORM.
- **Messaging.** ZeroMQ, RabbitMQ, Kafka, BullMQ.

### DevOps:

- **Version Control.** Git.
- **Deployment.** GitHub Actions, Docker, Terraform.
- **Providers.** AWS, Render, Cloudflare, Google Cloud, Fly.io.

### Linguistics:

- **Vietnamese.** Native language.
- **English.** 6.0 IELTS taken in September 2019.
- **Portuguese.** Intermediate.

## HOBBIES & SOCIAL ACTIVITIES

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My hobbies include football, working out, and programming. I am also passionate charity work and have participated in several volunteer campaigns, such as:

- The Full-moon Night CSE in Tra Vinh province, September 2014.
- The Spring Volunteer Campaign in Ho Chi Minh City, July 2014.
- The Green Summer Volunteer Campaign in Tra Vinh province, January 2014.
- The Full-moon Night CSE in Tra Vinh province, September 2013.
- BKIT Night, BKIT Week, April 2013.

## REFERENCES<sup>1</sup>

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**Dr. Nguyen An Khuong**

*BE Thesis Reviewer, Academic Mentor*

Faculty of Computer Science and Engineering,

Ho Chi Minh City University of Technology.

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**Nguyen Duc Thai, Ph.D.**

*BE Thesis Advisor*

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**Dr. Thuc Vu**

*Former Employer*

Co-Founder / CEO of Kambria & Ohmnilabs Vietnam

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<sup>1</sup>THE LIST IS SORTED IN ALPHABETICAL ORDER.