

# Run Nakjeen (ริญญ์ นาคจีน)

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## Introduction

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I am Final year (2025) **Computer Engineering student at Kasetsart University with a GPA of 3.60.** Passionate about a wide range of topics, including Artificial Intelligence, Cybersecurity, Software development, Operator system and Networking. Constantly seeking opportunities to challenge myself and expand my skills.

## Skills

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**Programming Languages:** C++, C, Python, JavaScript, TypeScript, Bash, Solidity, Java, SQL, Rust, Go  
**Technologies:** Nest.js, React Native, Docker, React, Kubernetes, Git, Airflow, TensorFlow, PyTorch, Svelte  
**Skills:** Linux, Problem Solving & Algorithms, Blockchain, Image processing, NLP, Web Security, Reverse Engineering, Networking, Data Pipelines, OS

## Experience

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### Research Engineer Intern

April 2025 – May 2025

*KASIKORN Business-Technology Group (KBTG)*

- Built a P2P lending system that matches lenders and borrowers using VC-based identity , minimizing reliance on centralized intermediaries.
- Researched and prototyped Verifiable Credential (VC) frameworks (W3C, Iden3/Polygon ID) for decentralized identity management and trustless credential verification.
- Designed and developed a DeFi lending protocol integrating smart contracts (Solidity, ERC-20/4626) with zero-knowledge proof (zk-SNARK) mechanisms for borrower verification.
- Collaborated on smart contract development (Hardhat, Ethers.js, Wagmi) and frontend integration (Next.js, MetaMask, WalletConnect).

### Data Engineer Intern

April 2024 – June 2024

*Innovative Extremist (INOX)*

- Designed and optimized Airflow DAGs to enhance workflow efficiency.
- Implemented robust data quality checks to ensure pipeline reliability and accuracy.
- Improved pipeline task integration by implementing data passing between tasks.

## Projects

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### Food Delivery App (Group Project)

*Lead Developer*

Led the development of a microservices-based food delivery application using React Native, featuring real-time chat, GPS tracking, order cart functionality, and reporting tools. Designed the system architecture and implemented agile workflows. Developed the backend with Nest.js, connected to a database using Prisma, and utilized Kafka for inter-service communication. Deployed on Kubernetes for production, used Docker Compose for local testing, and automated the CI/CD pipeline with GitHub Actions.

### Web-based IDE Emulating Linux on Browser

[ide.runnakjeen.com](https://ide.runnakjeen.com) 

Developed an online IDE featuring a code editor, file storage, and a console emulating a Linux environment. Enabled users to write and execute code directly in the browser without local setup.

### Pop-Can: Free Popcat Parody Supporting 300 Users Simultaneously

[pop-can.runnakjeen.com](https://pop-can.runnakjeen.com) 

Using entirely free services. Developed the application to support 300 unique users simultaneously.

## Achievements

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- **Thailand Olympiad in Informatics** (2020 and 2021) national programming competition
  - Received a special award in 2021 (scores on the first day were the furthest from the second day).
- **Thailand Cyber Top Talent** (2022 and 2023) National Cyber Security Agency (NCSA)
  - Ranked 14th out of 354 participants in 2023.
  - Reverse engineering, web security, network security, forensics and mobile.
- **18th KU KPS National Conference and Silver medal SCiUS Forum (national science project competition)**
  - Research on the separation of rice varieties using AI and image processing.
- **Pass to Level 2 SUPER AI Engineer Season 3** (2022)
- **Winner of Innovation Robotic AI & IoT Contest** (2023)
  - Developed a hardware and software that measures and predicts daily cow's milk production.
  - Using esp32 send data to server with MQTT and deploy ML model on server.