

Nathan Kho Pancras

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Summary

Third-year Informatics Technology student (18) with keen interest and active study in **cybersecurity**, including **cryptography**, **forensics**, and **red teaming** while still knowledgeable in other areas. Skilled in C++ and Python, and experienced in full-stack development with extra knowledge in robotics development and AI.

Education

Sepuluh Nopember Institute of Technology *2023 - 2027 (Expected)*
B.Sc. in Information Technology

- CGPA: 3.90/4.0
- Assistant Lecturer for:
 - Information Asset Protection (Spring 2025, Fall 2025)
 - Operating Systems (Spring 2025)
 - Data Structures and Object-Oriented Programming (Spring 2025)
 - Ethical Hacking and Penetration Testing (Fall 2025)
 - Cloud Computing Technology (Spring 2026)

Professional Highlights

Cybersecurity Competitions

- Cryptography stream lead and player in the cryptography / forensics stream for **HCS** since 2023, ITS's cybersecurity club, currently ranked as Indonesia's fifth best CTF team.

Cybersecurity Challenge Developer

Designed and implemented intricate cybersecurity challenges (CTF) for major events, providing real-time support to participants.

- A Renewal Agent (ARA) CTF 6.0 - Indonesia - 2 challenges in cryptography
- Badge to Breach: ICS Cyber Siege 2025 - Malaysia - 1 challenge in cryptography
- Schematics NPC CTF 2025 - Indonesia - 3 challenges in cryptography
- A Renewal Agent (ARA) 7.0 CTF 2026 - Indonesia - 2 challenges in cryptography

Software Engineer / Programmer

Banyubramanta ITS

*Surabaya
2024 - 2026*

- Improved a system for an ROV/AUV using STM32 with ROS2, OpenCV, and YOLOv5, created a UI for rapid construction of ROV/AUV behavior trees.

Speaking Experiences

- Training HCS x SMKN 2 Jember - Intro to Cryptography, Sepuluh Nopember Institute of Technology, 2025
- HMIT's Cybersecurity Club - Intro to Cryptography, Sepuluh Nopember Institute of Technology, 2025

Projects

ECC Digital Signing System - Python, React w/ TailwindCSS

[GitHub](#) 

- Designed and implemented a secure **digital signing system** using **ECDSA-SECP256k1** for robust binary file authentication, featuring AES-256-GCM encrypted key storage.

Skills and Technologies

Languages: Python, C, C++, SQL, Javascript, Typescript, Solana

Frameworks: Flask, Express, React, Next.js, Vue.js, Astro, Foundry

Awards and Achievements

- **2nd Place - ARKAVIDIA 10.0 CTF** Mar 2026
Awarded by: Institut Teknologi Bandung (National)
Achieved second place in this renowned national CTF from Institut Teknologi Bandung (sponsored by Xendit) known for their great players. (As part of Heroes Cyber Security)
- **3rd Place - HOLOGY 8.0 CTF** Oct 2025
Awarded by: Universitas Brawijaya (National)
Achieved third place in this national CTF from Universitas Brawijaya. (As part of Heroes Cyber Security)
- **2nd Place - HackToday CTF 2025** Sep 2025
Awarded by: Institut Pertanian Bandung (National)
Achieved second place in this national CTF from Institut Pertanian Bandung. (As part of Heroes Cyber Security)
- **3rd Place - Meta4Sec Cyber Ops Clash CTF 2.0** Aug 2025
Awarded by: Meta4Sec & redlimit. (National)
Secured the third place in this national CTF brought by the Meta4Sec community. (As part of Heroes Cyber Security)
- **Top 5 - Standoff 15 for Blue Teams** Apr 2025
Awarded by: Standoff 365 Team & Positive Technologies (Global)
Achieved a top 5 ranking in a premier international cyberbattle. (As part of Heroes Cyber Security)
- **Best Writeup & Top 10 - RECURSION CTF 1.0** Apr 2025
Awarded by: Universitas Hasanuddin (National)
Recognized for clarity and depth in documenting challenge solutions. (As part of Heroes Cyber Security)
- **2nd Place - AI vs Human CTF** Mar 2025
Awarded by: HackTheBox (Global)
Secured second position in an international Capture The Flag event, competing against AI agents and human teams to solve cryptography and reverse engineering challenges. (As part of Heroes Cyber Security)
- **3rd Place - National Cyber Week CTF** Nov 2024
Awarded by: BINUS University (National)
Achieved third place in this national CTF brought by BINUS University known for their great players. (As part of Heroes Cyber Security)
- **1st Place / Best Strategy - Kontes Robot Bawah Air Indonesia (KRBAI)** Jun 2024
Awarded by: Puspresnas / Ministry of Education, Culture, Research, and Technology (National)
As part of Banyubramanta ITS.

Other Awards

- Finalist - GEMASTIK Division II (Cyber Security) 2024 & 2025
- Top 10 - National Cyber Week CTF 2025
- Top 10 - Cyber Breaker Development (CBD) CTF 2025
- Top 10 - ARKAVIDIA 9.0 CTF 2025
- Top 4 - Netcomp 3.0 CTF 2024

Committees

- **Head of IT Olympiad (ARA 7.0)** Sep 2025 – Mar 2026
- **Expert Staff of IT Olympiad (ARA 6.0)** Oct 2024 – May 2025
- **Intern of Research and Technology Department (HMIT ITS)** Nov 2024 – Feb 2025
- **Staff of Mentor (INCLINATION 2024)** Aug 2024
- **Staff of IT Olympiad (ARA 5.0)** Oct 2023 – May 2024