

IHAB HASANAIN AKMAL

UNDERGRADUATE STUDENT

Bandung West Java | ihabb.hasanain@gmail.com | 085117026096



SUMMARY

A 5rd semester student majoring in Information Technology with a **GPA of 3.96**. I actively participate in organizations, developing teamwork, leadership and communication skills. Apart from that, I enriched my learning experience by taking online courses and bootcamps, strengthening my interest in **Telecommunications sector, Data Science** and **IT support**. My expertise is more than just technological knowledge, including **computer architecture, network architecture, IoT** and **security**. For general skills, I am quite proficient in Excel, design and MS Office.

EDUCATION

Telkom University - Bandung, Indonesia

Sep 2023 - Present

Bachelor Degree of Information Technology

- GPA 3.96/4.0

Relevant courses: Artificial Intelligence, IT Governance, IT Management, Security Audit, Web Development, Cloud Computing, Project Management, IoT, Database Management System, and Computer Network.

PROFESSIONAL EXPERIENCE

PT. Fiber Network Indonesia - Surabaya, Indonesia

Jun 2022 - Nov 2022

Intern Network Engineer

- Participated in network installation at PTTUN Surabaya. Starting from **LAN cable** installation, **Access Point** configuration, and port labeling.
- Assist technicians in carrying out maintenance at client premises.
- Observe the location of prospective clients to carry out installation by looking for the right location to lay the cable and estimate the devices needed such as **Access Point, HTB, Mikrotik** etc.

Wijaya Putra University - Surabaya, Indonesia

Jul 2024 - Aug 2024

Intern IT Support

- Participated in network installation in the new building Lab, including installing LAN cables, crimping **RJ45** connectors and **switches**.
- Installation of software for student practice to support teaching and learning activities on campus.
- Prepare the facilities needed when there is an event, such as **microphone, camera, internet**, etc.
- Assisting in running **podcast events** on campus, such as setting the **background, camera, lighting** and **OBS**.

Informatics Lab - Bandung, Indonesia

Feb 2024 - Dec 2025

Practicum Assistant of Programming Algorithm II

Feb 2024 - Jul 2024

- Assisted three classes, each comprising over 40 students, in the study of Programming Algorithms.
- Provided guidance and support to students in the implementation of if-else conditions and loop algorithms utilizing **Go-Lang** during Programming Algorithm practicums.
- Collaborated with fellow assistants to optimize the management of practicum activities and ensure a seamless workflow.
- Conducted comprehensive assessments of student practicum assignments, adhering to established evaluation rubrics.

Practicum Assistant of Operating System

Sep 2025 - Dec 2025

- Assisted 2 classes, each comprising over 35 students, in the study of Operating System.
- Provided guidance and support to students in practice of **Linux Ubuntu** and **Xinu, Syscall, Source Trail, Semaphore, GCC, Bash Scripting, Security, and GPG**.

Practicum Assistant of Programming Algorithm I

Sep 2025 - Dec 2025

- Assisted 1 class, comprising over 35 students, in the study of Programming Algorithms.
- Provided guidance and support to students in the implementations of basic Programming utilizing Go-Lang.

Telkom University - Bandung, Indonesia

Feb 2024 - Dec 2025

Assistant Lecturer of Programming Algorithm

Feb 2024 - Jul 2024

- Assisted the lecturer in preparing and delivering course materials, including lecture content, presentations, and supplemental resources.
- I guided over **35 students**, achieving a **passing rate of over 90%**.
- Facilitated classroom discussions to enhance comprehension of complex topics such as **subprograms, pointers, user-defined types, recursion, searching, and sorting algorithms**.
- Assessed assignments, quizzes, and exams, providing constructive feedback to optimize student learning outcomes

Assistant Lecturer of Discrete Mathematics

Jul 2024 - Dec 2025

- Aided students in comprehending complex concepts such as **Pigeon Hole Principle, Mutations, Combinations, Graph, and Tree**.

Assistant Lecturer of Mathematical Logic

Sep 2025 - Dec 2025

- Facilitated classroom discussions to enhance comprehension of complex topics such as **Propositional Logic, Predicate Logic, Programming Logic, Math Induction, and Proofing Technique**.

Assistant Lecturer of Data Structure

Sep 2025 - Dec 2025

- Aided students in comprehending complex concepts such as **Data Struct, Linked List, Binary Tree, Stack and Queue**.

Assistant Lecturer of Multimedia System

Sep 2025 - Dec 2025

- Facilitated classroom discussions to enhance comprehension of complex topics such as **Data Compression, Image & Colour, Cryptography, and Digital Sampling**.

Human Centric Engineering Research Center - Bandung, Indonesia

Sep 2025 - Dec 2025

Intern Data Science

- Literature study about **Computer Vision** for Breast Cancer Detection
- Building a model with **Deep Learning** for Breast Cancer Detection
- Integrating the model with **XAI** using **Machine Learning**

Adaptive Network Laboratory - Bandung, Indonesia

Jul 2024 - Present

Research Assistant

- Research in **SDN** and **IoT** collaborating with **Universiti Teknologi Malaysia** (International Collab)
- Learning **NDN, 5G, Cloud, Django**
- Responsible for leading and preparing mentor for the research.
- Become **trainers** in about Networking in a BootCamp

Advance Network Research Group - Bandung, Indonesia

Jul 2024 - Sep 2024

Research Assistant

- Learning about **5G** such as **Open5GS, Nephio, and RIC**.
 - Documentating my learning journey.
 - Proposed the **Sleep Cell mode in 5G Architecture**.
-

COMMITTEE EXPERIENCE

Committee of PKKMB Telkom University 2025 - Bandung, Indonesia

Jul 2024 - Sep 2024

Liaison Officer

- Official Telkom University Committee to Welcome new Students
- Responsible assisting over 40 new students
- Introducing them into the campus life

Megabit 8.0 - Bandung, Indonesia

Jul 2024 - Sep 2024

Liaison Officer

- Official Informatics Department to Welcome new Information Technology Students
- Responsible assisting over 40 new students
- Introducing them about Information Technology Major

SKILLS

- **Language** : Native Indonesia, Intermediate English, Basic French
- **Softskill** : Problem solving, collaborative teamwork, critical thinking, design thinking, creative thinking.
- **Software** : Microsoft Office, Java, C++, Go, Python, Linux, Docker, Kubernetes, Laravel, Django, Springboot, TensorFlow.
- **Hardskill** : Deep Learning, Computer Vision, IoT, Telecommunication.

CERTIFICATION

- **Networking Fundamentals** by **Microsoft**
- **IT Specialist - Network Security** and **IC3 Digital Literacy** by **Certiport**.
- Complete International standard courses such as **CCNA:SRWE**, **CCNA:ENSA**, **CCNA:IoN**, **CyberOps Associate** by Cisco and **Google IT Support** by Coursera.
- Complete National Training, **Junior Network Administration** and certified by **BNSP**

ACHIEVEMENTS

- **Second Prize** Network Track in **Huawei ICT Competition** 2024-2025 Asia Pasific
 - **2nd Winner** Network Track in **Huawei ICT Competition** 2024-2025 National
 - **1st Winner** PKM held by Department of Communication & Social Sciences, **Telkom University**
-