



SITI NURHAYATI SYAFANINGRUM

(+62) 8882852337 | ssyafaningrum@gmail.com | <https://www.linkedin.com/in/siti-nurhayati-syafaningrum-b113931b0>

Dayeuhkolot, Kabupaten Bandung

I am a person of high enthusiasm and motivation with leadership, initiative, and ability in public speaking. I wanted to take the role of being an educator, an innovator, and a collaborator in the field of telecommunications for the better future.

Education Level

Telkom University - Bandung, West Java <i>Undergraduate Telecommunication Engineering, 3.92/4.00</i>	Jun 2023 - Apr 2027 (Expected)
SMA Unggulan CT ARSA Foundation Sukoharjo - Sukoharjo, Central Java <i>High School Science, 90.98/100.00</i>	Jun 2020 - Jun 2023

• Top 7 Finalist Hackaton Security Palo Alto 2025
• 1st Runner-up SEARCH Essay Competition 2023

• 1st Runner-up Mba Sukoharjo 2022
• PASKIBRAKA Kabupaten Sukoharjo 2022
• 1st LKBB Kabupaten Sukoharjo 2022

Work Experiences

PT Telekomunikasi Seluler (Telkomsel) - Telkom Smart Office, Jakarta <i>Internship</i> Perusahaan penyedia layanan telekomunikasi dan produk digital	Jul 2025 - Sep 2025
Adaptive Network Laboratory - Telkom University, Bandung <i>Researcher</i> Engaged in an international research grant project titled "Empowering IoT Networks with Open-Source SDN using Multi-Tenant Slicing via Ryu Controller and IoT-DLVisor." This research focuses on SDN architecture and IoT implementation using microservices-based Ryu and network slicing.	Apr 2024 - Present
Artificial Intelligence Learning and Optimization - Telkom University, Indonesia <i>AI-Based Admission Forecasting</i> Collaborated in a faculty-led research project focused on forecasting student admissions for Telkom University from 2025 to 2030.	- Jul 2025

• Designed and developed a new "Tools" Page for Telkomsel's internal web portal, delivering three productivity tools (PDF Splitter, PDF Merger, and Sentiment Analyzer) as a full-stack developer.

• Created UI/UX wireframes in Figma, translated designs into responsive Vue.js framework, and Built backend services and APIs to support tool operations, including data scraping, text preprocessing, sentiment classification, and database integration.

• Optimized large-scale data queries from Hadoop clusters to serve multiple sub-directorates, enabling faster and more accurate business insights. Custom pipeline scheduler, reducing manual workload and ensuring consistent reporting.

• Developed a Tableau dashboard to visualize fixed service payload insights, empowering stakeholders with actionable analytics.

• Integrated two middleware APIs to collect and normalize customer behavior data from external sources, strengthening Telkomsel's data ecosystem.

Experience

Teaching - Telkom University, Indonesia

Sep 2025 - Present

Lecturer Assistant of Complex Variable

- Selected as a Teaching Assistant for the S1 Telecommunication Engineering curriculum (2024).
- Assisted the lecturer in grading assignments and exams related to complex numbers, analytic functions, and conformal mapping.
- Provided academic support to students struggling with advanced mathematical concepts essential for signal processing and electromagnetic theory.

Teaching

Sep 2025 - Present

Academic Tutor - Probability and Statistics

- Conducted supplementary tutorial sessions for undergraduate students, focusing on probability distributions, hypothesis testing, and stochastic processes.
- Simplified complex statistical concepts to improve students' understanding of data analysis foundations used in telecommunication traffic engineering.

IEEE Telkom University Student Branch - Bandung, Indonesia

Jan 2025 - Present

Executive Committee -Secretary

IEEE Telkom University Student Branch is a Telkom University student chapter of the Institute of Electrical and Electronics Engineers (IEEE). Learn about technologies, attend an IEEE congress or conference, doing social activities and also create an event.

- Responsible for managing and maintaining the organisation's administrative operations, including registration, proposals, accountability reports, and correspondence.
- Supervised department secretaries by overseeing performance, making revisions, and ensuring administrative tasks are executed effectively.
- Created and managed comprehensive databases for internal and external purposes to ensure efficient record-keeping.
- Organised archives and implemented a systematic numbering system to facilitate document retrieval.
- Recorded detailed minutes during major organisational meetings.
- Utilised tools such as Microsoft Word, Excel, PowerPoint, Canva, Google Docs, and Google Sheets to perform administrative tasks professionally.

Netdev - Telkom University, Indonesia

Jan 2025 - May 2025

Mentor

A class provided by Adaptive Network Laboratory for Telkom University students. Training for knowledge about core network and preparing mentee as a researcher.

- Prepared comprehensive teaching materials, ensuring that content was relevant, clear, and aligned with learning objectives at SDN course.
- Designed and implemented assessments, reinforcing learning and measuring participant comprehension.
- Delivered engaging and informative lessons, effectively conveying complex topics to ensure participant understanding and skill development.

NetSchool - Telkom University, Indonesia

Nov 2024 - Present

Mentor

A class provided by Adaptive Network Laboratory for Telkom University students to learn Networking, Linux, and Python.

- Prepared comprehensive teaching materials, ensuring that content was relevant, clear, and aligned with learning objectives.
- Designed and implemented quizzes as post-activity assessments, reinforcing learning and measuring participant comprehension.
- Delivered engaging and informative lessons, effectively conveying complex topics to ensure participant understanding and skill development.
- Analyzed quiz results and assignments to assess participants' progress, providing constructive feedback to support their ongoing improvement and skill enhancement.

Skills

- **Soft Skills:** Public Speaking, Problem Solving, Critical Thinking, Emotional Intelligence, Creativity, Time Management, Discipline, Innovative, Team Work, Leadership, Communicative, Accountable
- **Programming & Development:** Python (Advanced), C, Vue.js, SQL, Bash Scripting.
- **Network & Simulation:** Mininet, Ryu Controller, Cisco Packet Tracer, Wireshark, Kubernetes, Docker.
- **Data Science & AI:** PyTorch, TensorFlow (Basic), Hadoop, Pandas, NumPy, Tableau, LSTM Networks.
- **Tools:** LaTeX, Git, Linux (Ubuntu), Figma.