

## Nayla Az Zahra

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LinkedIn: <https://www.linkedin.com/in/naylaazzahratanjung>

Portfolio: <https://naylatanjung.github.io/>

High-achieving third-year Information Technology undergraduate with strong experience in applied IT solutions and data-driven systems through academic and project-based work. Hands-on in data analysis, machine learning implementation, and web-based information systems, including predictive models and semantic web platforms handling large datasets. Seeking an IT internship at PT Telekomunikasi Indonesia (Persero) Tbk to contribute to enterprise-scale technology initiatives and digital transformation programs.

## EDUCATION

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### Universitas Sumatera Utara

3rd Year Information Technology, Undergraduate

2023 - Present

- **GPA:** 3.99/4.00
- **Relevant Courses:** Professional Ethics, Data Structures and Algorithm, Management Database System, Artificial Intelligence, Fundamental Big Data, Advanced Web Programming, Object-Oriented Programming, Human-Computer Interaction, Internet of Things, Cybersecurity Management

## PROFESSIONAL EXPERIENCES

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### Google Developer Group on Campus USU

*Academic and Tech Core Team*

October 2025 - August 2026

- Served as Technical Trainer and On-Site Mentor for 500+ members nationwide, providing hands-on technical guidance, real-time debugging, and troubleshooting across system implementation and tool usage.
- Designed and developed technology learning syllabi, aligning technical materials with industry standards, applied workflows, and hands-on project execution.

### Generasi Baru Indonesia

*Education and Culture*

September 2025 - July 2026

- Led PR and Marketing for GenVolunteer 1.0, applying digital tools and strategic campaign tracking, resulting in 100+ applicants within 25 days.
- Delivered nationwide financial literacy programs under Bank Indonesia initiatives through training and public outreach to enhance public awareness and access to financial information.

## LEADERSHIP EXPERIENCES

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### DEBUG IT

*Coordinator of Public Relations*

February 2025 - September 2025

- Applied digital communication platforms and integrated media channels to achieve 100% outreach to freshmen within one month following national university entrance announcements (SNBP, SNBT, SMM).
- Achieved a 97.8% workshop attendance rate (131 out of 134 participants) through effective communication and promotional strategies.

### CodeFest 001

*Coordinator of Call for Paper*

December 2024 - May 2025

- Managed a Scientific Writing Bootcamp by structuring the syllabus, coordinating mentors, and overseeing program delivery through organized digital workflows.
- Led a nationwide Scientific Writing and Essay Competition, managing digital registration, communication, and participant coordination.

## RELEVANT PROJECTS

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### Diabetes Prediction

- Developed an end-to-end supervised machine learning classification model for diabetes risk prediction using 96,000+ records, covering data exploration, preprocessing, modeling, and evaluation.
- Performed advanced data preprocessing and imbalance handling, including EDA, categorical encoding, feature scaling, train-test split (80:20), and SMOTE to improve minority class representation.
- Implemented and evaluated multiple classification models (Logistic Regression, Random Forest, SVM, KNN, Gradient Boosting), achieving 97% accuracy and 0.81 F1-score with Gradient Boosting.

### SumutCare

- Developed a semantic web-based healthcare search platform for 2,100+ facilities across North Sumatra by building an end-to-end data pipeline that scrapes government healthcare data using Python and Selenium, transforms raw JSON into structured RDF triples, and enables context-aware search through SPARQL and Apache Jena Fuseki.
- Implemented advanced search and geospatial features, including keyword, category, city-level, and nearest-location search, with real-time map visualization using OpenStreetMap and Leaflet.js.

### KerjaSama

- Designed the UI/UX for an Android-based freelance marketplace, focusing on user flow, usability, and intuitive interface design.

## CERTIFICATIONS

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- **Data Visualization Using Python** - IBM Developer Skills Network, 2025
- **Data Analysis Using Python** - IBM Developer Skills Network, 2025
- **Network Support and Security** - CISCO Networking Academy, 2025
- **Introduction to Cybersecurity** - CISCO Networking Academy, 2025

## SKILLS AND LANGUAGES

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- **Technical Skills:** C, C++, Python, Java, HTML, CSS, PHP, SQL, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- **Tools:** Google Workspace, Microsoft Office, Visual Studio Code, VirtualBox, Figma, Tableau
- **Soft Skills:** Leadership, Analytical Thinking, Conflict Resolution Skill, Discipline, Adaptability & Dynamic Teamwork
- **Languages:** English (Advance), Indonesia (Native)

## ACHIEVEMENTS AND AWARDS

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| • <b>Bank Indonesia Scholarship Awardee</b>                              | August 2025   |
| • <b>1st Regional - Digital Poster Design</b><br>SGM PIK-M Syahadah UMSU | August 2022   |
| • <b>1st National - English Speech Competition</b><br>UMSUFEST 2021      | February 2021 |