Nayla Az Zahra

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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

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

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

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

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

- **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

- **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

- **Bank Indonesia Scholarship Awardee**   August 2025
- **1st Regional - Digital Poster Design**
  SGM PIK-M Syahadah UMSU   August 2022
- **1st National - English Speech Competition**
  UMSUFEST 2021   February 2021