Nayla Az Zahra

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Third-year Information Technology student with strong experience in system development, data processing, and operational technical support. Proven in managing large-scale data, building reliable digital platforms, and delivering hands-on technical assistance. Eager to contribute to PT Pelindo Multi Terminal by supporting IT infrastructure, system operations, and digital service optimization to enhance organizational efficiency and reliability.

EDUCATION

Universitas Sumatera Utara

Bachelor of Information Technology (3rd Year)   2023 - Present
- **GPA:** 3.99/4.00
- **Relevant Courses:** Computer Organization and Architecture, Data Communication and Computer Networks, Database Management Systems, Data Structures and Algorithms, Advanced Web Programming, Artificial Intelligence, Cyber Security Management

PROFESSIONAL EXPERIENCE

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 Public Relations and Marketing for GenVolunteer 1.0, applying digital tools and strategic campaign analytics, resulting in 100+ applicants within 25 days.
- Delivered nationwide financial literacy programs under Bank Indonesia initiatives through social media content and public outreach, improving public awareness and access to financial information.

RELEVANT PROJECT

SumutCare: Healthcare Information Search Platform
- Developed a web-based search engine covering 2,100+ healthcare facilities across North Sumatra.
- Built an end-to-end data pipeline by scraping government datasets using Python and Selenium, transforming JSON data into RDF triples, and enabling semantic search using 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.

Machine Learning Model for Diabetes Risk Prediction
- Developed a supervised classification model using 96,000+ medical records to predict diabetes risk.

- 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.

LEADERSHIP EXPERIENCE

DEBUG IT
Coordinator of Public Relations   February 2025 - September 2025
- Led digital outreach strategies achieving 100% information distribution to freshmen within one month.
- Increased workshop attendance rate to 97.8% through structured digital communication strategies.

CodeFest 001
Coordinator of Call for Paper   December 2024 - May 2025
- Designed and managed end-to-end program workflows for a nationwide Scientific Writing Bootcamp using digital collaboration and project tracking tools.
- Supervised digital competition operations including registration system management, participant database coordination, and communication workflow automation.

CERTIFICATION
- **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
- **Computer Hardware Basics** - CISCO Networking Academy, 2023

SKILL AND LANGUAGE
- **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:** Effective Communication, Adaptability, Analytical Thinking, Critical Thinking, Detail-Oriented, Teamwork
- **Languages:** English (Advance), Indonesia (Native)

ACHIEVEMENT AND AWARD
- **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