ANJELIKA A. SIMAMORA

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North Sumatra, Indonesia

A Diploma in Information Technology student with versatile skills across software development, design, analysis, and quality assurance. Passionate about building efficient digital solutions through a blend of technical, analytical, and creative approaches. Experienced in developing applications, designing intuitive user interfaces, analyzing data, and ensuring product quality through structured testing. Skilled in gathering and translating requirements, improving workflows, and collaborating with cross-functional teams to deliver reliable and user-centered solutions. Committed to continuous learning and contributing to innovative, impactful, and technology-driven projects.

Education

Institut Teknologi Del - Laguboti, Indonesia   Aug 2023 - Aug 2026 (Expected)

Diploma in Information Technology, 3.37/4.00

- Relevant Courses: Software Engineering, Software Testing, Database Systems, Algorithms & Data Structures, Web & Mobile Development, Cloud Computing, Data Analytics, Probability & Statistics, Linear Algebra, Artificial Intelligence, IT Governance, and User Experience Design.

Projects

Global Analysis of the Prevalence of Mental Health Disorders - -   Oct 2024 - Dec 2024
Institut Teknologi DEL

- Conducted exploratory data analysis using Minitab including descriptive statistics, trend analysis, correlation testing, and visualization (histogram, boxplot, scatterplot, matrix plot, and time-series charts) to identify patterns and insights in mental health prevalence data across multiple countries.
- Designed and developed interactive dashboards in Power BI, utilizing maps, stacked bar charts, donut charts, waterfall charts, pie charts, scatterplots, and KPI cards to visually represent key mental health metrics and trends for data-driven insight generation.
- Applied statistical and analytical approaches such as comparative analysis, temporal trend analysis, and correlation analysis to uncover relationships among data variables and support meaningful interpretation for reporting.
- Structured dataset (501 rows and 11 attributes) and performed variable interpretation including labelling, segmentation, and analytical reasoning to extract actionable findings relevant to global mental health prevalence.

Design and Construction of Engineering Management   Jan 2024 - Jul 2024
Information System, Del Institute of Technology - Institut
Teknologi DEL

- Developed and implemented core system features across multiple modules (News, Testimonials, Curriculum, Facilities, Graduate Profiles, etc.) based on SRS and predetermined business requirements.
- Designed and constructed database models including ERD, conceptual, and physical schema to support scalable and consistent system architecture.
- Build logic following class diagrams, sequence diagrams, and business flows, and performed debugging to ensure each feature functioned as intended.
- Designed end-to-end user interface for the Sistem Informasi Manajemen Rekayasa IT Del, including layout architecture, information hierarchy, navigation flow, and component consistency to ensure an intuitive and accessible user experience.

Design and Development of the Bloom Bouquet Mobile   Jan 2025 - Jul 2025
Applicatio - Institut Teknologi Del

- Collaborated in Agile Scrum ceremonies, including sprint planning, daily stand-ups, sprint review, and retrospective, to align testing priorities with changing backlog items.
- Designed and executed manual test scenarios for both web and mobile applications, based on user stories and acceptance criteria in the product and sprint backlog.
- Conducted functional testing, UI/UX validation, and cross-device testing, identifying defects on mobile and web modules, documenting issues, and coordinating with developers for quick resolution.
- Ensured each sprint increment met quality expectations by performing iterative testing and verifying feature compliance with acceptance criteria before sprint completion.
- Designed the end-to-end mobile UI for the Bloom Bouquet Application, including product catalog, bouquet detail pages, cart interaction, checkout flow, order tracking, and user account interfaces, ensuring a seamless and aesthetic customer experience.
- Developed user journeys and interactive prototypes aligned with the bouquet-ordering workflow, translating business processes such as product browsing, customization, payment, and delivery status into intuitive screen flows.

Implementation of YOLOv11 for Mobile-Based Detection of   Aug 2024 - Present
Organic and Inorganic Waste Objects - Institut Teknologi Del

- Applied CRISP-DM methodology across Business Understanding, Modeling, Evaluation, and Deployment phases.
- Performed dataset preparation: data cleaning, labeling with bounding boxes (Roboflow), and augmentation to improve model

performance.

- Trained and validated models using metrics such as mAP@50, mAP@50-95, Precision, Recall, and confusion matrix analysis.
- Created mobile mockups showcased, applying clean layout structure, balanced typography, and accessible color schemes to optimize visibility during outdoor/environmental use.
- Collaborated with the development team by providing UI specifications, interaction guidelines, and screen behavior documentation to ensure consistent implementation across all detection features.

Strotify - Institut Teknologi Del   Jan 2024 - May 2025

- Developed a cross-platform mobile music application using Dart/Flutter as main UI framework
- Emphasised maintainable architecture and cross-platform consistency, empowering future scalability across diverse device ecosystems.
- Managed app assets and configuration including assets/, firebase.json, and pubspec.yaml, ensuring smooth integration of resources and third-party services.

Rumah Kreatif Toba - Institut Teknologi DEL   Apr 2025 - May 2025

- Conducted UX evaluations using Heuristic Evaluation, Competitive Analysis, and System Usability Scale (SUS) to identify usability issues and user needs.
- Redesigned navigation structure by creating new sitemaps, task flows, and user flows to enhance user clarity and task efficiency.
- Developed a complete UI Style Guide (typography, color palette, grid system, icons, buttons, and interactive components) to ensure visual consistency across the platform.
- Created high-fidelity Figma prototypes for core user journeys including homepage, category, product details, cart, checkout, payment, and order history.
- Integrated modern design principles and local Toba cultural elements to strengthen brand identity and improve user engagement.
- Proposed UX enhancements such as smart search, dynamic filters, real-time feedback, improved navigation, and a simplified checkout process

Organisational Experience

Del Data Science - Institut Teknologi Del   Nov 2024 - Present

Member

- Participated in study groups and workshops focused on Python, data analysis, and machine learning fundamentals.
- Collaborated on small-scale data science projects involving data cleaning, visualization, and model development.
- Engaged in discussions and learning sessions to explore emerging trends in AI, machine learning, and data-driven problem solving

HIMATIF - Institut Teknologi Del   Nov 2023 - Present

Member

- Actively contributed to organizational programs and student development activities within the Information Technology student association.
- Assisted in coordinating academic, social, and creative events to support student engagement.
- Collaborated with team members to execute initiatives that enhanced communication, community building, and organizational effectiveness.

Kemampuan, Penghargaan, dan Kompetisi

- **Hard Skills**: Web & Mobile Development, Database & SQL, Testing & QA, Agile/Waterfall, UX/UI Design, User Research, Data Analysis & Visualization, Python & Machine Learning, Feature Engineering, Model Evaluation, Dataset Labeling.
- **Soft Skills**: Teamwork,Communication, Problem Solving, Adaptability,Time Management
- **Tools** (2019): Selenium, Appium, Robot Framework, Cypress, Katalon Studio, Postman, GitHub, Trello, ClickUp, Figma, Balsamiq, Google Docs, Canva, VS Code, IntelliJ IDEA, Eclipse IDE, Excel, Google Sheets, Power BI, MySQL Workbench, PgAdmin, MongoDB, Minitab, Google Colab
- **Language**: Bahasa Indonesia (Native), English (Intermediate)
- **Achievements** ⊘: Belajar Dasar Pemrograman Web
- ⊘Belajar Dasar Pemrograman JavaScript
- ⊘Belajar Back-End Pemula dengan JavaScript
- ⊘AI Praktis untuk Produktivitas
- ⊘Python Introduction for Data Analysis