TOMU PETRA MANOGARI NAHULAE

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SUMMARY

An Informatics Engineering graduate who translates business goals into practical, user-focused digital products. Bringing hands-on experience in various roles including project management, full-stack, and front-end development, I am an effective team player ready to build high-quality, results-driven products.

EDUCATION

INSTITUT TEKNOLOGI SUMATERA (ITERA) **Lampung, Indonesia**
Bachelor of Informatics · GPA 3.53/4.00 **Sep 2020 - Aug 2025**

Relevant Courses: Introduction to Computer and Software, Web Programming, Mobile Application Development, Artificial Intelligence, Information Systems, Geographical Information System, Information Technology Project, Capita Selecta Informatics, Game Technology, Embedded System, Data and Information Visualization

WORK EXPERIENCE

PT. PGAS TELEKOMUNIKASI NUSANTARA RO BANDAR LAMPUNG **Lampung, Indonesia**
Web Developer Intern **Jan 2024 - Feb 2024**

- Architected the complete user interface and experience (UI/UX) from concept to completion, implemented the Design Thinking methodology to create detailed mockups, prototypes, and a static pipeline visualization in Figma. The resulting design was validated with a System Usability Scale (SUS) questionnaire, achieving an excellent score of 85.5 and confirming an intuitive and highly effective user experience.
- Developed a responsive, web-based information system by translating complex Figma designs into a functional front-end using HTML, Bootstrap CSS, and asynchronous JavaScript (AJAX) for seamless data handling. This new system provided centralized, remote access to critical infrastructure data for the main office, eliminating the previous need for a 2-hour commute to view the information on a local computer.
- Engineered the front-end's integration with a back-end RESTful API, enabling the dynamic retrieval and display of detailed specifications for all engineering equipment within the gas pipeline network. This initiative replaced a cumbersome and error-prone Excel spreadsheet system, reducing information lookup times by an estimated 10-15 minutes per query and significantly enhancing data accuracy for remote engineering teams.

PROJECT EXPERIENCE

HKBP KAYU TINGGI JAKARTA **Jakarta, Indonesia**
Web Developer Freelance **Mar 2025 - May 2025**

- Engineered a comprehensive, full-stack church information system as a solo developer, utilizing Laravel 11, PHP 8.3, MySQL, and a Blade front-end integrated with FullCalendar.js for event management. The platform successfully digitized all church communications for a congregation of over 1,500 members, creating a single, accessible source of truth that replaced inefficient, limited-reach printed bulletins.
- Designed and implemented a sophisticated automated scheduling algorithm to manage service assignments for over 30 musicians and song leaders, incorporating user-submitted availability and a fitness score to ensure fair rotation. This core feature automated a manual workflow that previously took 4 hours per month, reducing the administrative workload to just minutes and eliminating scheduling conflicts.
- Validated the system's reliability and user-centric design through rigorous testing, achieving 100% functional validity in Black Box testing and an outstanding 93% approval score from 83 users in User Acceptance Testing (UAT). The project's proven success in functionality, portability, and usability led to its formal acceptance as a thesis and its planned adoption for active use by the church.

ORGANIZATIONAL EXPERIENCE

- **NAPOSO BULUNG HKBP KEDATON** Lampung, Indonesia
  Member of Digital Creative Media Division Jul 2024 - Jul 2025
- **FIRST GATHERING MAHASISWA INFORMATIKA ITERA 2021** Lampung, Indonesia
  Staff of Materi dan Metode Division, Mentor Sub-division Sep 2021 - Oct 2021

SKILLS

- **Hard Skills:** Microsoft Office, WordPress, C++, Python, SQL, HTML, CSS, JavaScript, PHP, UI/UX, React Native, Canva, Git, MVC, Laravel, Yii, Figma
- **Soft Skills:** Leadership, Team Management, Team Management, Teamwork, Creativity, Communication, Time Management, Problem Solving, Public Speaking
- **Languages:** Bahasa Indonesia (Native), English (Fluent)