KHALIED NAULY MATURINO

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PROFILE SUMMARY

Software Developer with a background in Information Systems from Universitas Andalas, delivering comprehensive expertise across mobile and web development. Proven experience in building modern Android applications (Kotlin, Jetpack Compose, Flutter) and scalable web-based information systems (Laravel, React.js, Node.js). Highly skilled in MVC and MVVM architectures, REST API integration, and database management (MySQL, SQLite, Redis), with a strong commitment to clean code principles to produce scalable, efficient, and highly maintainable digital solutions.

EDUCATION

UNIVERSITAS ANDALAS – Padang, Indonesia

- Bachelor of Information Systems *2022 – 2026*
- GPA: 3.77/4.00

WORK EXPERIENCE

PT Persero Batam (MagangHub – Ministry of Manpower, Batch 2 2026) - Batam, Indonesia
Developer & Programmer *2026 - Present*

- Studied existing business processes and system workflows to understand operational requirements.
- Conducted on-site visits to branch offices to observe and understand business processes and operational workflows.
- Analyzed system requirements for a scanner-based solution for security personnel and a QR Code-based identification system for transportation drivers.

Directorate of Student Affairs Universitas Andalas - Padang, Indonesia
Freelance Programmer *2026*

- As part of a 2-person team, co-developed a full-stack Outcome-Based Education (OBE) academic information system (SIAKAD) using React JS, Node.js/Express, and MySQL.
- Focused on building and extending the student affairs modules: academic advising (dosen PA) with bulk assignment and management of students without an advisor, the KRS (study plan) and cross-major enrollment workflows, class/schedule management, and learning outcome reporting (CP/CPMK).

PT Neo Telemetri Software - Padang, Indonesia
Project Manager & Software Developer *2026*

- Manage project planning, task allocation, team coordination, and progress monitoring throughout the software development lifecycle.
- Contribute directly to software development, including requirements analysis, feature implementation, debugging, and deployment.
- Develop the Universitas Andalas Non-APBN Scholarship Information System as a company-assigned final project.

Directorate of Information Technology, Universitas Andalas - Padang, Indonesia
Junior Programmer (Intern) *2026*

- Developed a web-based Temporary Study Leave (BSS) submission system to digitize student administrative processes.
- Contributed to the development of internal dashboards and information systems for Universitas Andalas.

Information Technology Governance and Infrastructure Laboratory, Universitas Andalas – Padang, Indonesia
Household Division Coordinator *2025*

- Managed laboratory asset records and inventory documentation.

Teaching Assistant – Mobile Programming Course – Padang, Indonesia
Teaching Assistant *2025*

- Developed Android learning modules using Kotlin and Jetpack Compose.
- Taught and guided students in practical Android application development using Kotlin and Jetpack Compose.
- Assisted students with debugging, problem-solving, and completing programming assignments.

Department of Investment and One-Stop Integrated Services (DPMPTSP) – Padang, Indonesia
IT Support Intern *2025*

- Developed the official DPMPTSP Padang profile website using Laravel and MySQL.
- Developed a visitor management website for DPMPTSP Padang using Laravel and MySQL.
- Provided technical support including device troubleshooting, network maintenance, and operational IT assistance.

Directorate of General Affairs and Asset Management, Universitas Andalas - Padang, Indonesia
Programmer *2024 – 2025*

- Developed a web-based facility and infrastructure borrowing information system using Laravel and MySQL.
- Developed features for facility search, borrowing requests, approval workflows, and borrowing status monitoring.
- Managed facility, user, and borrowing transaction modules while adapting the system to business process requirements.
- Implemented a structured borrowing workflow to facilitate administrative processes and monitoring.

Basic Computing Laboratory, Information Systems Department, Universitas Andalas – Padang, Indonesia
Public Relations Division Member *2024 - 2025*

- Managed external communication and publication activities for laboratory programs.

ORGANIZATIONAL EXPERIENCE

BINER Faculty Student Activity Unit – Padang, Indonesia
Chairperson *2026*

- Led the revitalization and re-establishment of BINER at the Faculty of Information Technology, Universitas Andalas.
- Developed the organization's vision, mission, organizational structure, and work programs.
- Coordinated members in conducting activities focused on skill development, technology, and community service.
- Built collaborations with faculty members, student organizations, communities, and external stakeholders.

Neo Telemetri Student Organization – Padang, Indonesia
Organizing Committee Division Coordinator *2025*

- Created and managed organizational activity timelines from the beginning to the end of the term.
- Coordinated committee activities and ensured effective event management throughout the organization period.

Firetech 2025 Neo Telemetri Student Organization – Padang, Indonesia
Event Division Member *2025*

- Served as the Person in Charge (PIC) for the Hackathon competition and coordinated the two-day event implementation.
- Managed on-site coordination, communication with judges, and ensured the event ran according to schedule.

Open Recruitment 14 Neo Telemetri Student Organization – Padang, Indonesia
Event Division Coordinator *2025*

- Designed event timelines and activity plans.
- Prepared equipment and resource requirements for event execution.
- Managed overall event schedules and coordination.

PROJECTS

Web-based projects:

SIPANDAM UNAND (Sistem Informasi Pandam TPBU UNAND) *September 2026 – October 2026*

Developed a web-based system to digitally manage all Tabungan Pemakaman Bersama (TPBU) funeral savings services at Universitas Andalas from membership registration for university community members, management of maintenance fees and finances, to funeral arrangements, grave site allocation, and reporting.

- Built a modern web application using Laravel (PHP) with a React.js/TypeScript frontend via Inertia.js and Tailwind CSS, following an MVC architecture with a service layer
- Developed an end-to-end registration & membership module: online registration wizard (personal data, required documents, dependents, payment proof), tiered admin verification (member first, then dependents), automatic membership number generation, multi-identity login (NIK/NIP/NIDN/NUPTK/NIDK), and PDF membership card printing
- Managed the database using MySQL for storing member data, dependents, maintenance fees, payments & cashbook, grave blocks/sites, and process status including historical data import from the legacy system (Excel/CSV)

MyUNAND Academic Curriculum Web Universitas Andalas *September 2026*

Developed a web-based system to digitally manage the academic curriculum process based on Outcome-Based Education (OBE) for students of Universitas Andalas from curriculum design (CP–CPMK), course offering, cross-major KRS enrollment, to grade assessment and learning outcome reporting.

- Built the web application using React JS with a Node.js/Express backend following a service-layer architecture
- Implemented OBE curriculum management (CP/CPMK/Sub-CPMK) and the KRS & cross-major (cross-enrollment) workflow with verification by academic advisors
- Managed the database using MySQL (50+ tables) to store student, course, class, schedule, grade, and process-status data
- Built administration features to simplify management and monitoring through CP recap dashboards and learning outcome reports

Student Temporary Leave (BSS) Management System Universitas Andalas *May 2026 – June 2026*

Developed a web-based system to digitize the Student Temporary Leave (BSS) submission process at Universitas Andalas, including submission, verification, and administrative data management.

- Developed a web application using PHP with Laravel framework and MVC architecture.
- Built an online BSS submission workflow with verification processes by authorized staff.
- Managed MySQL database for storing student data, submissions, and process status.
- Developed administrative features to simplify submission management and monitoring.

Non-APBN Scholarship Information System Universitas Andalas *October 2025 – May 2026*

Developed a web-based scholarship management platform to digitize the registration, administration, verification, and selection process for Non-APBN scholarships at Universitas Andalas.

- Developed responsive frontend interfaces using React.js, Vite, Tailwind CSS, and Ant Design for applicants and administrators.
- Developed REST API backend services using Node.js and Express.js with authentication and role-based access control.
- Managed MySQL database using Sequelize ORM and implemented Redis to improve application performance.
- Implemented scholarship scheme management, dynamic forms, document validation, and structured selection workflows.

Student Creativity Program (PKM) Management System Universitas Andalas *December 2025 – February 2026*

Developed a web-based information system for managing the Student Creativity Program (PKM) at Universitas Andalas, replacing manual administrative processes with an integrated digital platform.

- Developed a Laravel-based web application using MVC architecture and multi-role authentication (Super Admin, Reviewer Coordinator, Supervisor, Reviewer, Student, and Management).
- Implemented proposal submission, administrative validation, reviewer assessment, and monitoring evaluation (Monev) features.
- Managed MySQL database for user data, proposals, assessments, and selection records.
- Designed structured workflows to improve PKM proposal management efficiency.

DPMPTSP Padang Profile Website *January, 2025*

Developed an official profile website for DPMPTSP Padang as a public information platform for government services and institutional information.

- Built the website using Laravel framework with MVC architecture and MySQL database.
- Developed service information pages, institution profiles, and dynamic content management features.
- Implemented user interface designs based on organizational requirements.

DPMPTSP Padang Visitor Management System *January, 2025*

Developed a web-based visitor management system to support digital visitor registration and visit data management.

- Developed online visitor registration and visit scheduling features.
- Built an admin dashboard to manage visitor data, institutions, and visit reports.
- Implemented verification workflows and visit status monitoring.
- Managed data storage using a relational database system.

Universitas Andalas Facility Borrowing System (SIMSAPRAS UNAND) *December 2024 – January 2025*

Developed a web-based facility borrowing system to support campus facility reservations and asset management at Universitas Andalas.

- Developed the application using Laravel framework with MVC architecture.
- Implemented facility search, borrowing requests, approval processes, and borrowing status monitoring.
- Managed MySQL database for facility, user, and transaction data.
- Improved borrowing workflows to make facility management more structured and easier to monitor.

Mobile-based projects:

CukingGo Android Application *September, 2026*

Developed a standalone Android application for recording and mapping cats encountered by users using Kotlin and Jetpack Compose, with fully local data storage.

- Developed an Android application using Kotlin and Jetpack Compose to record, describe, and map encountered cats.
- Implemented automatic GPS-based location tagging using FusedLocationProviderClient to capture cat discovery coordinates without manual input.
- Integrated an interactive OpenStreetMap-based map using osmdroid to display cat locations as markers on the main screen.
- Designed a local data architecture using Room Database to store cat metadata, including photos, descriptions, coordinates, and timestamps, without backend or server dependencies.
- Implemented internal device storage for photo files to maintain user data privacy.

TeleMetri Multi-Platform Mobile Application *September, 2025*

Developed a cross-platform mobile application for managing attendance and organizational schedules for Neo Telemetri using Flutter with a Laravel backend.

- Developed a mobile application using Flutter to support member attendance tracking and organizational activity management.
- Implemented QR Code-based attendance features for organizational activities.
- Integrated GPS-based location validation to ensure attendance was performed within the designated secretariat area.
- Integrated REST API services built with Laravel for managing member data, schedules, and attendance records.

ExcaMotion Android Application *July, 2025*

Published Android Application. Developed an Android application to analyze excavator operational activities through real-time work cycle duration tracking.

- Developed an Android application using Kotlin and Jetpack Compose following modern Android development practices.
- Published the application to Google Play Store as part of client project delivery.
- Implemented activity tracking features including Dig, Load, Swing, and Dump to automatically calculate cycle time.
- Utilized Room Database as local storage to maintain evaluation history and operational analysis data.

Whistleblowing System Android Application – DPMPTSP Padang *January, 2025*

Developed an Android-based internal reporting application to support digital complaint submission and management.

- Developed the Android application using Kotlin and Jetpack Compose with a responsive user interface.
- Integrated the application with a Node.js-based REST API backend for submitting and managing reports.
- Implemented a digital reporting workflow from complaint submission to report management.
- Adapted application features based on business processes and operational requirements of DPMPTSP Padang.

BersamaRakyat Android Application *December, 2024*

Developed an Android application to help citizens monitor political promises and improve public program transparency.

- Developed an Android application using Kotlin, Jetpack Compose, and MVVM architecture.
- Implemented features for tracking political commitments, public programs, and policy implementation progress.
- Integrated REST API services using Node.js and Express.js for application data management.
- Developed public discussion and news features to improve user engagement.

AgroWista Android Application *December, 2024*

Developed an Android application to support user participation in reviewing and reporting environmental conditions in Leuwimalang Tourism Village.

- Developed the Android application using Kotlin and Jetpack Compose with a responsive and interactive interface.
- Implemented user review and environmental incident reporting features.
- Integrated REST API services for submitting and managing user reports.
- Customized application workflows based on tourism information management and community engagement needs.

CERTIFICATIONS & AWARDS

- Gold Medal – Poster Category, Seminar on the Impact of the Mahasiswa Berdampak Program: Community Empowerment in Disaster Recovery in Sumatra, 2026
- Bangkit Academy 2024 – Mobile Development (Android) Learning Path
- 3rd Place - National Cybertech Hackathon, Politeknik Negeri Padang | December 2024
- 2nd Place - Impact National Hackathon by Maxy Academy | December 2024

SKILLS

Soft Skills: Problem Solving, Team Collaboration, Leadership, Time Management

Technical Skills:

- Programming Languages: JavaScript, PHP, Kotlin, Dart
- Mobile Development: Android SDK, Jetpack Compose, Flutter, XML Layout, Coroutines
- Frontend Development: React.js, Vite, Tailwind CSS, HTML, CSS
- Backend Development: Node.js, Express.js, Laravel
- Database & Data Management: MySQL, PostgreSQL, SQLite, Redis, Sequelize ORM, Room Database
- Tools: Git, GitHub, Postman
- Deployment: Linux Ubuntu, Docker, Containerization
- Software Development Concepts: REST API, MVC Architecture, MVVM Architecture

Languages: Indonesian (Native), English (Basic Working Proficiency)