

MICHAEL REYNALD MANOPPO

mikelnoppo03@gmail.com | (+62) 81342938366 | [linkedin.com/in/mikelnoppo/](https://www.linkedin.com/in/mikelnoppo/) | Manado, North Sulawesi

PROFILE

A final-year Informatics student at Sam Ratulangi University with a strong focus on Full-Stack Web and Mobile Development. Experienced in designing and building applications, covering everything from the front-end to the back-end. I am an effective communicator and a collaborative team player dedicated to delivering high-quality results. I am enthusiastic about applying and expanding my skills in a dynamic professional environment.

EDUCATION

Sam Ratulangi University | Faculty of Engineering, majoring in Informatics Engineering

Aug 2022 - Present

- Current GPA: 3.76 /4.00

Relevant Coursework: Information Technology, Database Systems, Artificial Intelligent, Front End Web Development, Back End Web Development, Mobile Apps Development, Desktop App development.

PROJECT EXPERIENCE

TRACKMEL PLN (ULP MANADO)

Jan 2025 – Jul 2025

Back-End Developer

- Designed and delivered RESTful APIs with NestJS and TypeScript to support multi-role workflows:
 - Petugas Yantek: create and process incident reports, upload photos.
 - Petugas Penyambungan: handle connection/installation reports, capture evidence photos, finalize reports.
 - Admin: dashboards, reporting, user management, and audit trails.
 - Modeled and migrated database schemas using Prisma ORM on PostgreSQL
 - Implemented authentication/authorization with JWT and role-based access and security with Rate-Limiting
 - Built secure file pipeline (Multer, image processing/compression, AWS S3 storage) and static file serving with CORS + Helmet.
 - Added activity logging for report lifecycle (created/processed/completed/deleted) and generated sequential report IDs
- Tech Stack: NestJS 11, TypeScript, Prisma 6, PostgreSQL, JWT, Swagger, Multer, Helmet, CORS, AWS SDK (S3-ready).

Front-End Developer

- Created an Admin dashboard with, responsive UI (Tailwind + Radix), toasts, and charts
- Implemented cookie-based JWT auth with RBAC, refresh flow, and rate limiting; secured services with Helmet/CORS.

Tech Stack: React 18, Vite 5, TypeScript, Tailwind CSS, Radix UI, TanStack Query, Axios, Zustand, React Router 6, Recharts, sonner, zod.

UNSRATE (Dating WebApp fror UNSRAT Student)

Mar 2025 –Jun 2025

Back-End Developer

- Developed core API including swipe, profile, view profile, chat, login, register, and admin pages.
- Creating a Socket.IO based real-time Chat within the scope of a match
- Enables file upload and static viewing, with file size limitations.

Tech Stack: NestJS 11, TypeScript, Prisma, PostgreSQL, JWT, Swagger, Socket.IO, Supabase, Firebase.

UPT Archives & Inventory Information System

Jun 2025 – Aug 2025

Full-Stack Developer

- Creating responsive UI with shadcn/ui, Tailwind
- Implements credential authentication (NextAuth + bcrypt) along with role-based access control and active/disabled status.
- Developed API route handlers (Next.js App Router) for CRUD and business flows.
- Integrate Supabase Storage for document upload/management and PDF preview

Tech Stack: Next.js, React, Tailwind, Shadcn/ui, Sonner, Supabase

Sistem Informasi Suvenir Responden dan Absensi Bank Indonesia

Nov 2025 – Feb 2026

Full-Stack Developer

- Built a full-stack internal management system for Bank Indonesia surveyors covering attendance tracking, souvenir report submissions, and respondent data management across multiple user roles (Admin, Super Admin, Surveyor).
- Implemented GPS-based clock-in/out with reverse geocoding, mandatory selfie photo capture, and automatic late detection
- Designed a multi-step approval workflow for respondent data edits, souvenir reports, and leave requests (Izin/Cuti/Sakit/Dinas) with role-based access control using NextAuth v5 JWT sessions.
- Developed analytics dashboard with Excel (XLSX) and PDF export capabilities, interactive charts (Recharts), and configurable PDF signature blocks for formal reports
- Deployed as a PWA with offline support via Service Worker, Web Push notifications (VAPID) for real-time alerts, and AWS S3 integration for photo/document storage.

Tech Stack: Next.js 16, React 19, TypeScript, Prisma, PostgreSQL, Tailwind CSS v4, TanStack Query, shadcn/ui, NextAuth v5, AWS S3

Database Responden Bank Indonesia

Nov 2025 – Feb 2026

Full-Stack Developer

- Architected RESTful API layer with Zod schema validation and CSRF protection, enforcing role-scoped data access across 10+ endpoints with structured error handling.
- Implemented role-based access control (RBAC) with two-tier permission system (admin/staff), scoping staff users to assigned survey types at both API query and UI level
- Developed multi-format data pipeline supporting CSV import (auto-delimiter detection, fuzzy field matching) and professionally branded Excel export with ExcelJS including Bank Indonesia logo, frozen headers, and print-ready A4 layout
- Developed multi-format data pipeline supporting CSV import (auto-delimiter detection, fuzzy field matching) and professionally branded Excel export with ExcelJS including Bank Indonesia logo, frozen headers, and print-ready A4 layout

Tech Stack: Next.js 16, React 19, TypeScript, Prisma, PostgreSQL, Tailwind CSS v4, TanStack Query, shadcn/ui, better-auth, ExcelJS

Sistem Magang Bank Indonesia

Nov 2025 – Feb 2026

Full-Stack Developer

- Developed a full-stack internship management system for Bank Indonesia Regional Office (North Sulawesi), replacing paper-based workflows with a mobile-first web application using Next.js 16, TypeScript, Prisma, and PostgreSQL
- Implemented geofence-based attendance with polygon point-in-polygon algorithm, GPS accuracy validation ($\leq 40m$), and altitude-based spoofing detection to enforce on-site check-in/check-out
- Built role-based access control (RBAC) with NextAuth.js JWT sessions, custom API middleware (withAuth, withRole, withOwnership), and route-level protection for intern and admin roles
- Designed an automated CRON reconciliation system that auto-marks absent records at end-of-day, respects national holidays (synced from external API), approved leaves, and weekends

Tech Stack: Next.js 16, React 19, TypeScript, Prisma, PostgreSQL, shadcn/ui, Leaflet, Zod, React Hook Form, Nodemailer, React Email, Recharts

ORGANIZATION EXPERIENCE

Himpunan Mahasiswa Elektro Fakultas Teknik (HME-FT UNSRAT)

May 2023 – Present

Member

Unsrat IT Community (UNITY)

Feb 2025 – Feb 2026

Coordinator back-End Developer

- *Guiding backend development member, how to design and build API , how to use Backend Development tools*

Unsrat IT Community (UNITY)

Mar 2024 –Dec 2024

Member Back-End Development

- Learning RESTful API, PHP and other Backend Development tools

LANGUAGE SKILLS

Bahasa Indonesia: Native

English: Upper-Intermediate

SKILLS

Soft Skills:

- Communication skills
- Leadership skills
- Time Management skills
- Teamwork
- Disciplined
- Adaptability

Hard Skills:

- Microsoft Office (Excel, Word, Power Point)
- Dart
- Flutter
- Python
- PostgreSQL
- MySQL
- PrismaORM
- JavaScript
- TypeScript
- PHP
- ReactJs
- NestJs
- Next.JS
- Vite
- Firebase
- Tailwind