

Mohammad Rafly, S.Farm

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Purbalingga, Central Java

PROFILE

A licensed pharmacist (active STRA) and recent graduate with internship experience in the pharmaceutical manufacturing industry, specializing in CPOB compliant production. Demonstrated practical expertise in conducting line clearance, In-Process Control (IPC), batch record documentation, CAPA preparation, equipment qualification, and production process supervision for up to 14 batches. Named the University's Top Student of 2024 with a track record of national and international achievements in pharmaceutical innovation and organizational leadership. Highly motivated to contribute to the field of Production.

EDUCATION

Muhammadiyah University of Purwokerto Pharmacy Professional Education Program

February 2025 – April 2026

- GPA 3.80/4.00
- Received a full scholarship for a student exchange program organized by UCSI University.

Muhammadiyah University of Purwokerto Bachelor of Pharmacy Program

September 2021 – February 2025

- GPA 3.46/4.00
- Research Title: Bioinformatics Study on the Discovery of Water-Soluble Compounds (*Zingiber officinale*) as Antidiabetics.
- Relevant Courses: Solid Dosage Form Technology, Semi-Solid and Liquid Dosage Form Technology, Sterile Dosage Form Technology, Industrial Pharmacy, and Pharmaceutical Product Development.

WORK EXPERIENCE

Research Assistant, Faculty of Pharmacy, UMP, Banyumas

April–July 2025

- Formulated and optimized gel preparations based on kopyor coconut extract, evaluated physical characteristics (pH, viscosity, spreadability, adhesion, homogeneity), and tested their effectiveness in vivo.
- Conducted bioinformatics research using molecular docking studies on FDA-approved drugs as potential breast cancer prevention candidates, compiled the findings into a scientific article, and conducted scientific research on kopyor coconut as a potential estrogenic agent.

UCSI Hospital, Malaysia

November 2025

- Observed international-standard medication distribution management systems (UDD & ODD), aseptic reconstitution of injectable formulations, and monitoring of Parenteral Nutrition (PN).
- Engaged in therapeutic analysis, identification of Drug-Related Problems (DRPs), and Therapeutic Drug Monitoring (TDM).

PKU Muhammadiyah Gombong Hospital, Kebumen

October 2025

- Managed drug distribution to satellite pharmacies using the FIFO/FEFO principles, conducted inventory counts, analyzed deadstock, and determined drug requirements using consumption and epidemiological methods.
- Conducted medication therapy monitoring (MTM) for patients with complex cases (sepsis, acute kidney injury, hypertensive emergencies) and developed the hospital formulary index based on disease trends.

LAFI PUSKESAD, Bandung

August–September 2025

- Managed the production process for “Vitarma” tablets, from ensuring production line readiness (line clearance), weighing, and mixing, through primary and secondary packaging, while actively performing In-Process Control (IPC) and evaluating finished products in accordance with CPOB standards across 14 production batches.
- Completed an investigation into technical production issues in the coating process through a fishbone diagram analysis regarding the problem of uncoated tablets, identified issues with machine temperature, and developed mitigation measures (CAPA) to prevent failures in subsequent batches.
- Monitored and analyzed the performance of utility systems, including the Purified Water System and HVAC, to ensure that production environmental conditions complied with cleanliness classifications and applicable regulations.
- Conducted quality testing on raw materials, packaging materials, intermediate products, bulk products, and finished products to ensure compliance with established specifications.

- Conduct performance qualification (PQ) on production equipment (Planetary Mixer) and support calibration activities for weighing systems (Sartorius digital scales).

Permata Medika Pharmacy, Purbalingga

August–September 2025

- Conducted a feasibility study for the establishment of a new pharmacy, including market analysis, legal aspects, operational considerations, and short-term financial planning.
- Optimizing inventory management for 45 pharmaceutical products using ABC-VEN analysis, as well as providing self-medication services and home pharmacy care.

Pejagoan Community Health Center, Kebumen

June 2025

- Reviewed outpatient prescriptions and analyzed quarterly LPLPO (Medication Usage Reports and Request Forms) data for inventory control.

PBF PT. Sapta Sari Tama, Purwokerto Branch, Banyumas

May 2025

- Designed the layout plan for the pharmacy warehouse and developed distribution standard operating procedures (SOPs) to ensure full compliance with Good Drug Distribution Practices (CDOB) standards.
- Conducted operational audits of the storage system, verified purchase orders, and simulated digital reporting via e-Report and e-Was.

ORGANIZATIONAL EXPERIENCE

First General Chair of the PK IMM Farmasi

August 2023 – August 2024

- Led a student organization by coordinating an executive board across 10 divisions in implementing work programs.
- Managed the implementation of more than 20 academic and non-academic programs with a scope ranging from local to national.
- Developed skills in communication, leadership, project management, and *decision-making*

Head of the HPKP Division at PK IMM Farmasi

July 2022 – August 2023

- Managed the division team in the implementation of work programs, including task allocation, monitoring, and evaluation of member performance.
- Conducted strategic analyses on political, public policy, and social issues relevant to students.

ACHIEVEMENTS

- **University** - 1st Place in the University-Wide Outstanding Student Award – Muhammadiyah University of Purwokerto, 2024¹
Selected as the university's Top High Achieving Student based on 17 national/international achievements, 5 Intellectual Property Rights (IPR), 2 scientific articles, 3 books with ISBN/QRCBN, scientific works, organizational leadership, and representation of the university at the regional level of LLDikti Region VI.
- **National** - 2nd Place Winner in the "Most Visionary Student Organization" Category at the 2024 Abdidaya Ormawa Awards - Ministry of Education, Culture, Research, and Technology (Kemendikbudristek), 2024²
Awarded a national-level honor as the organization's chairperson for excellence in organizational governance, long-term strategic planning, and the impact of an innovative community service program specifically, the conversion of tofu waste into a scrub product to boost the local economy.
- **International** - 3rd Place at The 1st IPSCo (International Hybrid Short Course in Pharmacy) – APTFMA, 2022³
Ranked 3rd Internationally for designing an innovative anti-aging facial serum formula based on Tempe and Gedong Gincu Mango extracts.

SKILLS

- Production & Quality : CPOB, line clearance, batch records, performance qualification, IPC, CAPA, and GMP documentation.
- Soft Skills : Discipline, responsibility, creativity, time and project management, adaptability, leadership, and problem-solving
- Software : Microsoft Office (Word, Excel, PowerPoint, etc.), Google Suite (Docs, Sheets, Forms, Slides, etc.), Computational Chemistry (PyMOL, PyRx 0.8, ChemDraw, Autodock), Graphic Design (Canva)
- Languages : Indonesian (Proficient)
English (Intermediate)→ TOEFL Prediction (573)⁴
- Certifications : Solid Production in the Pharmaceutical Industry⁵
Sterile Production in the Pharmaceutical Industry⁶