

Gregorius Frederico

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ABOUT ME

I am an Informatics undergraduate student focusing on software engineering, driven by a deep interest in building practical and functional applications. I am currently seeking an internship as a Software Engineer or Developer, where I can apply my experience in building full-stack web applications (ReactJS/Laravel) and native Android mobile apps (Kotlin/Jetpack Compose). Additionally, I am actively exploring machine learning, having gained experience in developing and tuning deep learning models for a data classification project. I am enthusiastic about contributing to real-world projects and am eager to continue learning and growing my skills within a professional team.

EDUCATION

Multimedia Nusantara University (UMN), Tangerang, Indonesia

Sep 2023 – Aug 2027

Undergraduate Informatics - GPA 3.79 of 4.00

Achievement

- Awarded merit-based scholarship worth IDR 10,200,000 from PT. Adaro Indonesia

EXPERIENCE

UMN Faculty of Engineering and Informatics Lab, Tangerang

Feb 2025 – Jun 2025

Laboratory Assistant

- **Mentored 30+ students** through practical web modules, HTML, CSS, JavaScript, and ReactJS applications.
- **Ran hands-on sessions** to help students collaborate and work through coding problems.
- **Taught** version control practices with Git and GitHub, covering branching, pull requests, and conflict resolution.
- **Reviewed and graded** student coding projects, providing technical feedback to help them improve.

UMN Festival 2025, Tangerang

Mar 2025 – Present

Full-stack Developer

- **Engineered and maintained** the official UMN Festival 2025 website, currently **serving 1300+ users** with a ReactJS/Tailwind CSS front-end and a Laravel back-end.
- **Designed and implemented** the MySQL database schema to **manage 1300+ user accounts** and handle all transactions for the ticket purchasing, and merchandise sales pages.
- **Integrated the Midtrans API** for secure online payment processing, collaborating closely with the UI/UX team to ensure the design was consistent and aligned with UMN Festival branding.

KliniQ Doctor Reservation Application

Sep 2025 – Present

Project Lead & Mobile Developer

- **Led a 3-person development team** in building a real-time patient queueing application using Kotlin, Jetpack Compose, and Firebase.
- **Designed the Firebase Firestore schema** for a 3-role (Admin, User, Doctor) architecture, including user authentication, schedules, and visit history.
- **Engineered the application architecture (MVVM)** to manage the core queuing logic, including patient-side cancellations, real-time queue updates, doctor/admin management controls, push notification and daily reporting.

Personalized Meal Plan Generator Using ML Based Diabetes Risk Classification

Sep 2025 – Present

Machine Learning Engineer (Project)

- **Collaborated in a 3-person team** to develop this classification model as the foundational component for a two-stage personalized meal plan generation system.
- **Performed** data preparation and **defined custom labels** for three risk classes (Non-diabetes, Pre-diabetes, Diabetes) on the NHANES 2021-2023 dataset, based on medical research.
- **Conducted** a comparative analysis of classical (CatBoost, XGBoost) and Deep Learning (1D CNN + LSTM) models, determining that the tuned DL architecture achieved the **highest test accuracy of 81%**.
- **Applied** advanced hyperparameter tuning techniques (including RandomizedSearchCV and Bayesian Optimization) using Keras TensorFlow to find the optimal model.

ORGANIZATION

MAXIMA UMN 2024, Tangerang

Mar 2024 – Sep 2024

Accommodation & Safety Committee

- **Ensured** the smooth and safe execution of the university's annual orientation event for **1000+ participants**.
- **Coordinated** with **40 team members** and division leaders to maintain event security and order.
- **Implemented** and **enforced** SOPs for event security, crowd control, and emergency procedures.

COMPETITION

Huawei ICT Global Cloud Track Competition

Mar 2025 – Present

- Competing in the national qualification track, a timed examination assessing comprehensive knowledge of Huawei Cloud, Big Data, and AI platforms.

COMPFEST 17 Capture the Flag Competition

Aug 2025

- Solved practical cybersecurity challenges (Web Exploitation, Blockchain, etc.) in the COMPFEST 17 national qualification round.

SKILLS

- Programming Languages: JavaScript, PHP, Python, Java, Kotlin
- Front-End: ReactJS, Jetpack Compose, Tailwind CSS, Bootstrap, HTML, CSS
- Back-End: Laravel, Firebase
- Databases: MySQL, NoSQL
- Tools: Git, GitHub
- Soft Skills: Teamwork, Public Speaking, Communication

CERTIFICATION

HCIA-AI V4.0 - Huawei (Oct 2025)

Web Development Fundamentals - IBM SkillsBuild (Oct 2025)

Huawei Certified ICT Associate (HCIA) openGauss V1.0 - Huawei (Jul 2025)