

# JEREMIA PINNYWAN IMMANUEL

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## SUMMARY

Computer Science undergraduate passionate about Machine Learning, Networking, and Cybersecurity. Skilled in academic mentoring, critical thinking, and collaborative problem-solving through hands-on research and system development projects.

## SKILLS

- **Programming & Tools:** Python, C++, Dart, PHP, JavaScript, MATLAB, Node.js, Flutter
- **Frameworks & Libraries:** TensorFlow, Scikit-learn, Laravel, Express, Bootstrap
- **Database:** MySQL, MongoDB
- **Other Skills:** Networking (GNS3), Git, Critical Thinking, Collaboration, Adaptability

## WORK EXPERIENCE

### Assistant Lecturer, Tarumanagara University

Aug 2025 - Present

- Assisted in teaching and supervising practical sessions on computer systems, helping 40+ students understand digital logic, number systems, and microcontroller applications.
- Supported assessment and grading, ensuring fairness and consistency across assignments.
- Provided feedback that improved students' analytical and technical performance.

## PROJECTS

### Prediksi Harga Pangan Jayapura Menggunakan ELM, LSTM, LightGBM, dan Gradient Boosting

June 2025

- Built and evaluated time-series models through data preprocessing, training, and validation using MAE, MAPE, RMSE,  $R^2$ , and training time.
- Achieved the best overall performance using ELM (MAE 0.21, MAPE 0.76%,  $R^2$  0.87) and recommended it as an efficient and accurate model for food price forecasting in Eastern Indonesia.

**Technologies:** Python (Pandas, NumPy, TensorFlow, LightGBM, Matplotlib)

### QuizNet - Real-time distributed quiz simulation system

Nov 2024 - Dec 2024

- Designed and implemented a real-time multi-client quiz system within a distributed network simulation using GNS3.

**Technologies:** Python, GNS3, Ubuntu Server, Puppy Linux

### BetterLife - Productivity Web App

Nov 2024 - Dec 2024

- Built a multi-feature productivity web app (Pomodoro, Mood Tracker, Diary) with CRUD operations, authentication, and responsive UI.

**Technologies:** HTML, CSS, JS, AngularJS, Bootstrap, Express, Node.js, MongoDB, Git

*For more detailed projects and code repositories, please visit my GitHub and LinkedIn profiles.*

## EDUCATION

### Bachelor of Science in Informatics Engineering

Aug 2021 - Current

Tarumanagara University, Jakarta

GPA: 3.54 / 4.00 | Specialization: Data Mining