

JOEL CHRISCENDO RAHARDJO, LIEM

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EDUCATION

Bina Nusantara University

Undergraduate Student, Computer Science: Data Science Track (GPA: 3.92 / 4.00)

Jakarta, ID
August 2024 – Present

Sedes Sapientiae High School Semarang

Mathematics and Natural Sciences (MIPA) Major

Semarang, ID
Jun 2021 – Jun 2024

PROJECTS

Customer Churn Prediction | Python, XGBoost, LightGBM, SHAP | [Link](#)

September 2026

- Built an end-to-end ML system predicting telecom customer churn using a stacking ensemble (Logistic Regression, Random Forest, XGBoost, LightGBM), with SHAP values to explain individual predictions. Achieved an ROC-AUC of 0.849, deployed as an interactive dashboard with batch scoring and per-customer retention recommendations

Student Academic Status Classification | Python, Scikit-learn, Optuna, XGBoost | [Link](#)

June 2026

- Developed a multi-class classification system predicting student academic outcomes using an Optuna-tuned specialist expert pool (XGBoost, SVM, GaussianNB) combined via Dynamic Classifier Selection (DCS-LCA). Outperformed traditional static ensemble methods with an F1-Score of 0.8638; accepted for presentation at ICTIM 2026.

SkillSwap | Flutter, Firebase, Riverpod | [Link](#)

June 2026

- Built a peer-to-peer mobile platform letting users trade skills instead of paying for online courses, implementing the Chat UI and match algorithm logic (Figma to Flutter) within a 6-person Agile team. Achieved an 88/100 System Usability Scale score and 100% task success rate during User Acceptance Testing

Laptop Price Prediction | Python, XGBoost, LightGBM, CatBoost | [Link](#)

June 2026

- Developed and deployed a machine learning web app estimating laptop market prices from hardware specifications using a stacking ensemble (XGBoost, LightGBM, CatBoost) with a RidgeCV meta-learner, tuned via Optuna. Achieved an R^2 of 0.913 and MAPE of 8.46%, deployed as an interactive Streamlit app with inference latency benchmarking

NutriVision Pro | TensorFlow, Keras, OpenCV | [Link](#)

December 2025

- Built a nutrition-tracking web app helping parents monitor children's daily intake and identify fruits via AI-powered image classification using a MobileNetV2 deep learning model. Implemented secure user authentication and automatic BMI calculation, deployed as a live Streamlit application

ORGANIZATIONAL EXPERIENCE

HIMTI BINUS University

Semarang & Jakarta, ID

Vice Manager Academic Event Semarang

Jan - Dec 2026

- Planned, managed, and oversaw various academic event programs, coordinating activity logistics and establishing strategic partnerships across departments, while serving as Event Chair for industry company visits organized with HIMTI

Activist Academic Event

Sep 2024 – Dec 2025

- Contributed operationally to the planning and execution of annual academic programs within the Academic Event division.

TECHFEST 2025 Committee - Event Division

Apr - Jul 2025

- Formulated technical competition rules and built specific datasets used as test materials and assessment standards for data competitions

First Year Program BINUS

Semarang, ID

Freshmen Leader (Peer Mentor) & Freshman Partner (B29)

Ags 2025 - Jan 2026

- Mentor and facilitate new Computer Science students during the campus orientation period.
- Assist in the academic adaptation process of new students, provide guidance regarding lectures, and serve as the main facilitator for personal development discussions.

SKILLS & INTERESTS

- Technical Skills (Hard Skills):** Machine Learning (Python), Data Science, Data Mining, Database (SQL), Object-Oriented Programming (Java), C, Web Development (HTML, CSS, JavaScript).
- Focus Areas:** Data Science, Data Engineering, Artificial Intelligence (AI), Data Analytics, Machine Learning.

CERTIFICATIONS

Cloud Foundations Training, Cloud Architecting Training

AWS Academy Graduate

Azure AI Fundamentals Training (AI-900T00-A Learning AI from Basics)

Microsoft

Build an AI Agent

IBM