

CHAIDEN RICHARDO FOANTO

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SUMMARY

I am an Informatics student specializing in Artificial Intelligence at Ciputra University. Most of my time in university has been spent actually building things, mobile apps with Flutter, backend systems with Laravel and MySQL, REST APIs, and Python for machine learning and data projects. I care about whether what I build actually makes sense for the person using it, so I have been applying Design Sprint and User-Centered Design in my projects to stay grounded in real problems. On top of that, I published a research paper on CNN-based image classification, which came from wanting to see AI work in a real environment, not just a Jupyter notebook. Across these experiences I have gotten comfortable working across the full stack, from designing databases and building APIs to training models and shipping mobile interfaces. That is pretty much what drives me, building things that work, and building them in a way that actually matters to someone.

EDUCATION

Bachelor of Informatics (Specializing in Artificial Intelligence) **2023 - Present**
Ciputra University (PSDKU Makassar Campus)

- CGPA: 3.90, Relevant Courses: REST API, Mobile App Development, Database Design, Big Data, Machine Learning, Computer Vision

RESEARCH & PUBLICATIONS

Automatic Identification of Tomato Leaf Conditions Based on OpenCV and CNN **Des 2025**
INTRO: Journal Informatika dan Teknik Elektro, Vol. 4 No. 2, pp. 112–118

- Built an AI system classifying tomato leaves into 9 categories (1 healthy + 8 disease classes) using CNN integrated with OpenCV.
- Achieved ~90% accuracy with precision, recall, and F1-score all above 0.88 on the test set.
- Implemented real-time detection via camera with average prediction time under 1 second per image.
- Pipeline included image preprocessing (resizing, normalization, augmentation), Adam optimizer, and categorical cross-entropy loss.

DOI: <https://doi.org/10.51747/intro.v4i2.425>

PROJECTS

PilihPilih | Imperfect Food Marketplace App **2026**
Back-End Developer & Database Designer | Laravel 13, MySQL, Redis, Firebase FCM

- Built REST API for a two-sided mobile marketplace connecting local farmers with culinary SMEs to reduce food waste.
- Designed relational database schema and implemented AI-based smart matching system that recommends products based on buyer preferences and browsing history, with Redis caching for performance.
- Developed real-time order tracking, in-app chat with media support, and push notification system via Firebase FCM.
- Implemented interaction logging pipeline to feed personalized recommendation model over time.

Indonesian License Plate Recognition | Comparative ML Study **2026**
ML Engineer | Python, YOLOv8, YOLO26, EasyOCR, OpenCV

- Built and evaluated three OCR pipelines on real Indonesian plates to identify the most

- effective combination of detection and character recognition models.
- Discovered through testing that plate detection and character recognition require separate models, leading to a hybrid YOLOv8 + YOLO26 pipeline design.
- Found that baseline YOLOv8 + EasyOCR outperformed the custom hybrid, demonstrating that model complexity does not guarantee better results.
- Documented findings honestly including failed approaches, reflecting a rigorous experimental methodology.

Jobaile | Household Worker Matching App

2025

Mobile Development | Flutter, Laravel 11, MySQL, REST API

- Led UI/UX design and front-end development of a two-sided platform connecting housemaids with employers using swipe-based matching.
- Conducted UX research (surveys, interviews, customer journey mapping) and produced Architecture Decision Records (ADR).
- Applied User-Centered Design (UCD) principles to create interfaces accessible across age groups.

TECHNICAL SKILLS

AI & Machine Learning

Python, TensorFlow, Keras, CNN, Computer Vision, Ultralytics (YOLO), Scikit-learn, Pandas

Back-end Development

Laravel 11 (PHP), Java Spring Boot, MySQL, RDBMS, MVC Architecture, API Development

Tools & Workflow

Git/Github, Jupyter Notebook, Google Colab, Design Sprint, Challenge-Based Learning

Mobile Development

Flutter (Dart), BLoC Architecture, REST API Integration, OpenStreetMap

Front-end & Design

HTML, CSS, Figma, UI/UX Design, User-Centered Design (UCD),

Soft Skills

Team Leadership, Time Management, Curiosity, Teamwork, Problem Solving

ORGANIZATIONAL EXPERIENCE

Event Member | Google Developer Groups on Campus Chapter UC Makassar

Sep 2025 - Present

- Designed event rundown and served as Master of Ceremonies (MC) for Google Developer Group on Campus chapter events.
- Social Media Crew – @uc_makassar_imt (Instagram)**

Mar 2025 - Mar 2026

 - Produces content for the official Informatics department Instagram account as a freelance creator.
- DevForge Hackathon Competition in Collaboration with Kasat Mata**

Jan 2025 - Juni 2025

 - Managed logistics and operational needs across divisions, including equipment, decoration materials, printed posters, and cuecards to ensure smooth event execution.

ACHIEVEMENTS

Speaker | 10th International Conference of Entrepreneurship

2023

Presented at an international academic conference as a student speaker.

Semifinalist | INJECTION by EPW @ ITS

2024

Reached the semifinal stage of a national competition hosted by Institut Teknologi Sepuluh Nopember (ITS).