

Kester Shaan L. Praferosa

Silang, Cavite, Philippines • kpraferosa28@gmail.com • +63 992 614 2037
kpraferosa.dev • github.com/kpraf • linkedin.com/in/kester-praferosa-163372328

Education

Mapúa Malayan Colleges Laguna

Bachelor of Science in Computer Science

Cabuyao City, Laguna

Expected 2027

Thesis: AgriKA-GIS: A Spatial-Temporal Framework for High-Resolution Rice Productivity Mapping and Yield Forecasting in Laguna

Experience

Praferosa Web Works

Founder & Web Developer

Silang, Cavite

February 2025 – Present

- Founded and operate a solo web development business for Philippine SMEs and international clients, managing the full cycle from sales and contracts to development and deployment
- Delivered 6 live client websites across marine & offshore, medical supply, engineering contracting, logistics, recruitment, and hospitality, including Mordec International (Singapore)
- Hand-code responsive client sites with HTML, CSS, JavaScript, and Tailwind CSS, choosing Eleventy, Laravel, or Framer based on each project's needs
- Deploy and maintain client sites on Netlify, configuring custom domains and SSL, with on-page SEO tracked through Google Analytics 4 and Search Console

Projects

AgriKA-GIS — Undergraduate Thesis

Lead Developer & Machine Learning Engineer, 4-member team

Mapúa Malayan Colleges Laguna

April 2026 – Present

- Built the full-stack Web-GIS platform (React 19, Vite, Flask, PostgreSQL/PostGIS) that maps rice productivity from municipality down to 682 barangays, with Leaflet map layers and Recharts analytics
- Extended an existing CNN-LSTM rice yield model to forecast across Laguna's 29 rice-producing municipalities, adding Sentinel-1 SAR imagery to Sentinel-2, Open-Meteo weather data, and 462 yield records (2018–2025)
- Implemented JWT authentication with three municipality-scoped roles, plus CSV data import and CSV/PDF report export
- Interviewed city agriculture officers in Laguna to gather requirements for LGU decision support

DJIHS Enrollment System

Lead Full-Stack Developer, team project

Software Engineering Course Project

October 2025 – March 2026

- Built a role-based enrollment system for Don Jose Integrated High School with six staff dashboards (Admin, Registrar, Adviser, Key Teacher, ICT Coordinator, Subject Teacher) using PHP, MySQL (PDO), JavaScript, and Tailwind CSS
- Designed the MySQL database and PHP API layer, with hashed-password login and role-based routing
- Implemented an enrollment workflow with review, approval, and rejection, duplicate prevention by LRN per school year, and support for regular, transferee, repeater, ALS, and balik-aral students
- Added bulk CSV/Excel student import and DepEd SF1 export via PhpSpreadsheet, plus audit logging and database backup

Kofiko — Coffee Ordering System

Full-Stack Developer, team project

Course Project

July 2026

- Built an Android (Kotlin) app on a framework-free PHP 8.2 REST API with 18 routes, 6 MySQL tables, and JWT auth
- Added barista and admin web dashboards, transactional stock deduction, and a System Usability Scale evaluation

Fashion Product Recommendation System

Personal Project

Personal Project

- Built a visual similarity search engine that returns the 5 closest matches from a 44,000+ image catalog using pretrained ResNet50 embeddings and scikit-learn nearest-neighbor search
- Batched feature extraction across the catalog in TensorFlow and NumPy, served through a Streamlit upload app

Skills

Languages: JavaScript, Python, PHP, Kotlin, SQL, HTML, CSS

Frameworks: React, Vite, Flask, Laravel, Tailwind CSS, Astro, Eleventy, Framer

Data & ML: TensorFlow/Keras, scikit-learn, NumPy, Streamlit, CNN-LSTM, Sentinel-1/2 imagery, PostGIS

Databases & Tools: PostgreSQL, MySQL, Firebase, Supabase, Git/GitHub, Netlify, Render, GA4, Search Console

Languages Spoken: English, Filipino

Interests: Business and personal development books, gym training, weekend running