DUSTINE GIAN G. RIVERA

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PROFILE

Third-year CS student who builds with AI every day and backs it with tests and CI so I can tell when the model is wrong. Shipped a live client website and worked on an AI-powered video and UX audit platform. Presented NLP research at AILRIC 2026. Looking for a software engineering internship.

EDUCATION

De La Salle University | BS Computer Science, Major in Software Technology — Expected 2028

- Multiple-time First Honors Dean's Lister
- Research Student Member, Dr. Andrew L. Tan Data Science Institute (ALTDSI), Sep 2026 – Present

EXPERIENCE

DGR Realty | Freelance Full-Stack Developer — Aug 2026 – Present

Next.js · TypeScript · Supabase · PostgreSQL · Zod · Playwright · GitHub Actions · Vercel

- Shipped a live real-estate site used by a real client and their buyers: property search, SEO listing pages, inquiry form and an admin dashboard for listings and photos.
- Built 11 REST API endpoints in Next.js route handlers, secured with Zod input validation, rate limiting, row-level security and admin multi-factor authentication. Managed the database through 8 versioned SQL migrations.
- Wrote 24 Playwright end-to-end tests and a GitHub Actions CI/CD pipeline; ran an OWASP ZAP scan and fixed the security headers it flagged.

GetUserInsights | QA Tester & Developer — Jun – Aug 2026

Python (Flask) · Gemini API · WebRTC · FFmpeg · SQLite

- Worked on an AI pipeline that turns a website URL or a recorded screen + camera session into a transcript and a Gemini-generated UX audit.
- Tested the full pipeline end to end and judged where the AI summaries were wrong or unclear; logged defects and verified fixes.
- Fixed bugs in the in-browser recording (camera stayed on after recording), the email system and tester onboarding.

PROJECTS

NYC TLC Source Database | Team Data Engineering Project — Oct 2026

Python · PyArrow · PostgreSQL · Parquet · SQL

- Loaded 48,722,602 yellow-taxi trip records from 12 Parquet files into PostgreSQL using PyArrow and binary COPY.
- Wrote profiling and validation checks for invalid durations, extreme speeds, out-of-range dates, rejected records and source-to-output row counts.

University Enlistment System | Lead Developer, Team Project — Sep 2026 – Present

Java · Spring Boot · Spring Data JPA · PostgreSQL · Thymeleaf · JUnit · Spock · Testcontainers · GitLab CI

- Led the team building an enlistment system with schedule-conflict, room-capacity and prerequisite rules, and adapted it to a mid-project change request.
- Prevented overbooking when many students enlist at once using database locking and automatic retries, and tested it with Testcontainers in a GitLab CI pipeline.

Other Projects — 2026

- **Roblox Game** (Luau, MCP): Small multiplayer game built with an AI agent connected to Roblox Studio.
- **KomyutPH** (Figma): Iterated a commuter-navigation app prototype using usability-test feedback to a System Usability Scale score of 81.75/100.

RESEARCH

AILRIC 2026 Student Research Workshop | Oral Presenter, University of San Carlos, Cebu — Aug 2026

Word-Level Language Identification in Code-Switched Filipino-English Documents

- Presented accepted research that classifies each token in code-switched text using character n-grams, morphological and lexical features, and previous-token context.

LEADERSHIP & ORGANIZATIONS

HackerCup 2026 | Asst. Team Lead, Program Design 2026
HackerCup 2025 | Executive, Program Coordination 2025
CCS Week 2026 | Asst. Team Lead, Sports Mgmt. 2026
DLSU Animo Squad | Yell Commander Feb – Sep 2026

TECHNICAL SKILLS

AI & Agents: Claude, Gemini API, MCP (Model Context Protocol), prompt and context writing, AI-assisted development
Languages: TypeScript, JavaScript, Python, Java, SQL, Luau, HTML/CSS
Web & Backend: Next.js, React, Node.js, Express, Spring Boot, REST APIs, Flask, Supabase, Zod, Tailwind CSS
Data: PostgreSQL, MySQL, MongoDB, Pandas, scikit-learn, PyArrow
Testing & Tools: Playwright, JUnit, Testcontainers, GitHub Actions, GitLab CI, Vercel, FFmpeg, WebRTC, Figma