CLARENCE KYLE PAGUNSAN

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EDUCATION

University of the Philippines Baguio *Aug 2022 - Jun 2026*
Bachelor of Science in Computer Science, *Magna Cum Laude*

EXPERIENCE

Full Stack Developer, B&C Real Estate (Freelance) *Apr 2026 - Jun 2026*

- Launched bncrealestate.ph, the first digital presence for B&C Real Estate, using Next.js, TypeScript, Tailwind CSS, and Sanity CMS, letting the broker manage 54+ listings independently.
- Structured property pages and inquiry channels for overseas buyers, generating 3 direct inquiries within the first week of launch.

Software Engineer, Integrous Strategies LLC (Contract) *Feb 2026 - Apr 2026*

- Engineered a fintech SaaS platform end to end with Claude Code, delivering LLPA-adjusted rate pricing and refinance analytics to mortgage loan officers on Next.js, TypeScript, and Supabase (PostgreSQL).
- Architected a TypeScript pricing engine evaluating 22+ rate scenarios per client in under a second, computing break-even thresholds and optimal rate selection.
- Shipped an admin panel for rate grids and LLPA adjustments across all US states via Supabase Realtime, cutting daily rate updates from hours to under a minute.

Full-Stack Developer, Horizon (Contract) *Nov 2025 - Jan 2026*

- Led the migration of a client's legacy PHP tool suite to Next.js and React with 1:1 visual parity, collaborating with stakeholders and using Docker for reproducible environments.
- Built a premium-tier redesign of the company homepage with Tailwind CSS and React as an assigned rebrand concept.

Software Engineer Intern, Dept. of Math and Computer Science, UP Baguio *May 2025 - Feb 2026*

- Co-developed the project under faculty supervision, working directly with the Baguio City Health Services Office to map record workflows for the city's paperless initiatives.
- Designed a nutrition data management system consolidating records for 2,000+ children across 119 barangay health centers.
- Automated record parsing into validated dashboards with a Dockerized deployment, reducing manual consolidation from 2 weeks to under 1 day.

PROJECTS

AIGVDet-UltraLite *(Undergraduate Thesis, University of the Philippines Baguio)* *2026*

- Designed a lightweight PyTorch detector for AI-generated video that replaced the AIGVDet baseline's ResNet-50 with MobileNetV3-Large and its RAFT optical flow with NeuFlow v2.
- Reached 0.8451 macro-averaged accuracy, 0.0489 above the baseline, while the lighter backbone cut CPU inference 5.2x and peak VRAM per branch from 11.02 GB to 5.53 GB.
- Co-authored the thesis manuscript evaluating a 2x2 ablation on the Generated Video Dataset benchmark across eleven AI video generators.

UP Baguio Student Relations Office *2025*

- Built a Vite and React web app with Supabase (PostgreSQL) letting UP Baguio students submit activity requests and track approval status live, replacing a paper-based process.
- Designed a mobile-responsive staff dashboard with shadcn/ui and Tailwind CSS for reviewing requests and managing organizational records in real time.

Senior Citizen Records Management System *2024*

- Built a records management system with Excel and VBA for 68,000+ records, cutting report generation from 4 days to under 4 hours (90% faster).

SKILLS

Languages & Tools: TypeScript, JavaScript, Python, Java, C, SQL, Docker, Git, REST APIs, Claude Code
Frameworks & Libraries: Next.js, React, Node.js, Tailwind CSS, shadcn/ui, Supabase, PostgreSQL, Vercel