JULIAN PETER GERONA

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EDUCATION

MAPÚA MALAYAN COLLEGES LAGUNA **Cabuyao, Laguna**
BS Information Technology, Specializing in Cybersecurity August 2022 – 2026

Running General Weighted Average: 1.48 (1.00 scale)
President's Lister, 2022–2023; Dean's Lister, 2022–2026
Relevant Coursework: Applied Cryptography, Ethical Hacking, Information Security and Assurance, Systems Integration and Architectures, Web Systems and Technologies, HCI and UI/UX, Data Structures and Algorithms Analysis

WORK EXPERIENCE

CITY GOVERNMENT OF BIÑAN – ICT OFFICE **Biñan, Laguna**
Software Engineer Intern April 2026 – Present

- Engineered the Biñan Access Card MIS with PHP CodeIgniter 4 stack for the City Social Welfare and Development Office (CSWDO), centralizing census profiling and demographic tracking for 100,000+ families across 24 barangays.
- Built spatial and data analytics dashboards utilizing Chart.js and PSGC shapefiles converted to SVG, providing city administrators with real-time demographic distributions and event throughput metrics.
- Designed subsidy distribution workflows to verify beneficiary eligibility and disburse aid for municipal and national programs, including 4Ps and Senior Citizen pensions.
- Deployed offline local-network QR verification pipelines across 15–20 concurrent scanner stations, eliminating external internet dependency during multi-day payout events and preventing duplicate disbursements.

CREOTEC PHILIPPINES **Remote**
Work Immersion Trainee April 2021

- Built two Android applications for employee payroll and attendance records in MIT App Inventor.
- Awarded Best in Work Immersion for the STEM strand.

PROJECTS

STREAMLINE (Capstone Project) **2026**

- Led a 4-person team building a full-stack geospatial and visualization platform for the Laguna Lake Development Authority (LLDA), fusing LoRa IoT sensor telemetry with satellite raster data on an interactive MapLibre GL and deck.gl map.
- Architected the stack on React 19 and Django REST Framework over PostGIS, serving satellite raster layers from Cloudflare R2 object storage.
- Delivered the full monitoring workflow: water quality dashboard, government-to-government management, and automated report generation scheduling via cron workers.
- Applied SAST and DAST practices against the OWASP Top 10 via Zed Attack Proxy (ZAP) and GitHub Actions to secure the web application.

MMCL SPARK **2025**

- Led a 4-person team building a native Android student enrollment portal in Kotlin and Jetpack Compose over a REST/PHP backend via Ktor, including a conflict-free schedule suggester generating non-overlapping section combinations from enlisted courses.
- Covered the full enrollment cycle from enlistment and sectioning through billing and grades, with a hand-built weekly timetable that merges overlapping class events against a live clock.

GITGUD **2026**

- Built a terminal UI developer tool for git version control in Rust using Ratatui and Crossterm as a personal productivity project.
- Implemented hunk-level staging through git apply patches and a modal vi-style commit editor to familiarize with Vim motions.

AFFILIATIONS

CYBERSECURITY SOCIETY OF THE PHILIPPINES (CyberSocPH) **Member, 2026**

- Recognized as a Member in Good Standing of the national professional society for cybersecurity practitioners.

MAPÚA MCL INFOTECH SOCIETY (ITSOC) **Member, 2025**

- Trained in GIS fundamentals and QGIS workflows at the society's *Actionable Insights* remote sensing and geomapping workshop.

SKILLS

Technical Skills: Proficient in TypeScript, Python, PHP, SQL; React, Next.js, Node.js, Django, CodeIgniter 4, Tailwind CSS; PostgreSQL, MySQL, Figma. Familiar with Rust, Godot, Kotlin, Jetpack Compose, Docker, GitHub Actions, and Cloudflare R2.
Certifications: CompTIA Tech+; Cisco CCNA: Introduction to Networks; Cisco Ethical Hacker; Google Cloud Computing Foundations; Amazon Full Stack Web Development; Infosec Advanced Python
Languages: Filipino (native), English (fluent)