# Gabriel B. Elepaño

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## Education

**National University - Laguna** — Calamba, Laguna
Bachelor of Science in Computer Science — 2022-2026
**Calamba City Science Integrated School** — Calamba, Laguna
Science, Technology, Engineering, and Mathematics (STEM) — 2020-2022

## Technical Skills

**Languages & Tools:** *Python, Java, Excel, R, HTML/CSS, PHP, SQL, JavaScript, Bash, Kotlin, OpenAI Whisper, BERT, mT5, Tableau*

**Skills:** *Machine Learning, NLP, LLM, Web Development, Database Management, Data Visualization, Effective Communication, Leadership*

## Projects

**Thesis – Handling Ambiguity in Filipino-English Code-Switching Transcription**
Improved transcription accuracy of Filipino-English code-switched speech by using OpenAI Whisper for initial transcription and a fine-tuned mT5 model for error correction, reducing Mixed Error Rate from 37.55% to 3.56% and increasing $M^2$ F-score from 39.84% to 89.86%.

**Forecasting model for utilization rate of employee**
Implemented and compared Gradient Boosting, Random Forest, and Linear Regression models in Python to predict future employee utilization rates, helping maintain the target 85% utilization rate, with Random Forest achieving the highest accuracy on synthetic data.

**Cyclistic Case Study**
Conducted data cleaning and statistical sampling in R with a 98% confidence level and 2% margin of error, analyzed seasonal and yearly trends in Sheets, and derived actionable insights to convert casual riders into annual members.

**SmartFit Fitness App**
Led development of fitness tracking app with custom workout routines, progress logs, and a chatbot for workout guidance. Improved user planning efficiency via preset workout splits.

**S.T.O.C.K (Smart Tracking for Organized Commerce Keeping)**
Developed an Android QR-scanning app in Java integrated with a PHP-MySQL inventory system, enabling real-time stock deduction and efficient item tracking.

## Certifications and Achievements

**Google Data Analytics Professional Certificate | Google** — November 2025
Gained hands-on experience in data cleaning, analysis, and visualization using spreadsheet, SQL, R, and Tableau to prepare, analyze, and present data insights effectively.
**CalambaGo TechBiz Challenge Finalist** — October 2024
**13th IT Skills Olympics** — November 2024
**OpenText Ideathon 2025 Champion** — October 2025

## Organizations

**Microsoft Student Community | NU Laguna** — August 2025-Present
**Technical Support Officer**
Provided technical support during events, including setup of sound systems, projectors, and TVs, managing live event technology, and addressing other technical needs.
**NU Laguna Alpha Gaming | NU Laguna** — January 2022-April 2025
**Member**
Collaborated in team-based gaming activities and tournaments, demonstrating teamwork, strategy, and commitment to group goals.