

Meinard Francisco

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EXPERIENCE

Department of Science and Technology (DOST) – Project LODI

Jul. 2025 – Aug. 2025

Software Developer Intern

Manila, PH (Remote)

- Developed backend modules for the Balik Scientist System using Laravel and MariaDB, improving admin data retrieval efficiency.
- Designed secure, modular SQL schemas meeting government regulatory data integrity standards.
- Managed Gitea Git workflows and SDLC best practices for a remote BYOD team.

PROJECTS

Open Source Contributions

Present

Contributor / Maintainer

Online

- Maintainer, [tldr-pages](#) (60k+ stars, 59 merged PRs): Review and merge community pull requests, maintaining strict documentation standards to provide high-quality CLI usage examples for a global developer audience.
- Contributor, [Microsoft WinGet Packages](#): Facilitated seamless software deployment for thousands of Windows users by validating, debugging, and submitting 66 new package manifests to the official repository.
- Contributor, [Bing Rewards script](#): Improved reliability and execution speed by refactoring legacy code and implementing efficient logic handling.

Galing PUP – University thesis repository system | *Lead Developer*

Nov. 2025

TypeScript; Next.js; Tailwind; Shadcn; Supabase; Resend; Google GenAI

[GitHub](#) | [Live](#)

- Governed strict development gates requiring comprehensive automated unit tests before feature deployment to the main branch.
- Designed optimized Prisma ORM structures with Supabase PostgreSQL to process high-concurrency academic searches securely.
- Standardized internal team Git workflows by implementing Conventional Commits to accelerate shipping velocity.

ABKD – Filipino automatic speech recognition system | *Developer*

Sep. 2025

Kaldi ASR Toolkit; Linux; bash; Python; Streamlit; GMM-HMM; TDNN-HMM

[GitHub](#)

- Engineered a hybrid TDNN-HMM ASR system via Kaldi, yielding a 20.29% WER and 6.28% CER on low-resource native speech.
- Configured VTLN frequency-warping onto adult acoustic training matrices to simulate child speech structures and bridge domain gaps.
- Integrated Mono-and-Triphone shared loss functions to counteract data sparsity constraints without extensive corpus inflation.

Worm Programming Language | *Lead Developer*

Feb. 2025

Python; Regular Expressions; Streamlit

[GitHub](#) | [Live](#)

- Developed a standalone mini-programming language interpreter in Python featuring native multi-conditional control blocks.
- Programmed a structural lexical analyzer from scratch utilizing regular expressions to tokenize and validate custom source text.

EDUCATION

Polytechnic University of the Philippines

Oct. 2022 – Sep. 2026

Bachelor of Science in Computer Science

Manila, PH

- Projected to be a magna cum laude; 1.1577 GPA
- DOST-SEI Science & Technology Scholarship grantee

SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Bash, Fish, Powershell, PHP, C, Java, HTML/CSS

Frameworks & Libraries: Next.js, React, Laravel, Tailwind CSS, Shadcn UI, Streamlit, Pandas, NumPy

Dev Tools: Linux, Git, GitHub, Docker, Podman, Supabase, SQLite, MariaDB, LaTeX