

HERTZ LENIN C. MISCREOLA

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SUMMARY

Versatile Computer Science sophomore with a background spanning **full-stack web development, app development, and interactive game design**. Experienced in turning concepts into functional software through personal and academic projects, with a sharp focus on clean code architecture and engaging user experiences.

EDUCATION

Cebu Institute of Technology - University | Cebu, Philippines

Bachelor of Science in Computer Science | **Expected Graduation:** May 2028

GPA: 4.16 | **Relevant Coursework:** Data Structures, Algorithms, OOP, Web Development, App Development

SKILLS

- **Languages:** Javascript, HTML5, CSS3, C++, Java, Python, GDScript, Dart
- **Frameworks & Libraries:** React, Next.js, Three.js, Flutter, Godot Engine, TailwindCSS
- **Cloud & Deployment:** Firebase Hosting, Google Cloud Platform (GCP)
- **Developer Tools & Workflow:** Git, Github, npm, Prompt Engineering

PROJECTS

[Interactive Portfolio Website](#) | *Next.js, TailwindCSS, Three.js, Firebase Hosting and Firestore*

- **Engineered a multi-paradigm web application** featuring entirely different visual styles per route, including a 3D pixel-art hybrid landing page, an interactive retro desktop for projects, and a cartoon-style about page.
- **Developed an interactive "web pet" feature** linked to a real-time guestbook, utilizing **Three.js** for 3D interactions and **TailwindCSS** for smooth page transitions.
- **Designed a custom Firebase data-sharding system** for the comment section, automatically batching user messages into indexed array files to optimize database performance and bypass storage limits.

[DaisieDex](#) (Mobile Plant Collector) | *Flutter, Dart, Pl@ntNet API, JSON Sharding*

- **Built a cross-platform mobile app** using **Flutter** and **Dart** that scans and identifies plants using the **Pl@ntNet** and **Wikipedia** APIs.
- **Designed a custom local storage system** that saves plant data, nicknames, and notes directly to the device using JSON files.
- **Programmed smart file management** that splits data files automatically if they exceed 20MB and permanently deletes raw image files from the device when a plant is removed.

[Friend.ly](#) (School Anonymous Messaging Website) | *React, TailwindCSS, Firebase Hosting and Firestore*

- **Developed a web-based messaging platform** for academic school research, enabling students to connect and communicate completely anonymously within the campus network.
- **Engineered real-time chat sync** by establishing persistent data streams with **Cloud Firestore** listeners, enabling low-latency message delivery across active user sessions.
- **Implemented client-side session logic** in **TypeScript** to securely manage user anonymity while maintaining stable, stateful chat connections.
- **Deployed the web application** utilizing **Firebase Hosting**, marking my initial hands-on exposure to cloud infrastructure and deployment pipelines.