

Harold Mojica

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EDUCATION

De La Salle University – Manila, Philippines

Expected Graduation: June 2026

B.S. in Computer Science, Major in Software Technology | GPA: 3.43/4.0

- **Relevant Courses:** Data Structures & Algorithms, Object-Oriented Programming, Database Management, Web Development, Mobile Development, Advanced Intelligent Systems, Software Engineering

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, HTML, CSS

Frameworks & Tools: React, Tailwind CSS, Node.js, Express, REST APIs, MySQL, MongoDB, Git, Postman, Figma

PROJECTS

OpenChan | Node.js, Express, SQLite, HTML/CSS, Tailwind CSS

Aug. 2025

- Developed a **secure role-based access control web system** implementing **authentication, authorization, and logging features**.
- Enforced **security best practices** such as **password complexity, reauthentication, and least-privilege access** across Admin, Manager, and Employee roles.

CityShadows | Python, PyTorch, OpenCV, GeoPandas

July 2025

- Automated **collection and processing of Google Street View images** using **PyTorch and OpenCV** to detect buildings and trees for urban shade estimation.
- Developed a **shade-based pedestrian routing system** using **GeoPandas and pybdshadow**, improving route shade coverage by up to **45%** compared to Google Maps.

UniRide | Android Studio, Java, XML, Firebase

Nov. 2024

- Built a **university-based ride-sharing web app** that enabled **real-time ride matching and route visualization** through **Google Maps API integration**.
- Implemented **secure authentication** using **OAuth APIs**.

TAE | GameMaker Language

May 2024

- Developed a **1–2 player local multiplayer pixel game** using **GameMaker Studio 2**, enabling two players to play simultaneously on the same keyboard.
- Integrated **sprite animations, interactive menus, music, and sound effects** through GameMaker Language scripting.

JPDGarage | React, Node.js, Express, MongoDB

Apr. 2024

- Enhanced an **inventory and sales management web app** for a motorcycle parts shop by adding **real-time notifications, payment tracking, and audit logging** using the **MERN stack**.
- Streamlined software delivery and testing through **Agile Scrum practices** and a **GitHub Actions CI/CD pipeline**, automating **Jest unit tests** and **Heroku deployments** for continuous integration.

LEADERSHIP AND INVOLVEMENT

Industry Partnership Negotiator | Google Developers Students' Club | DLSU

2023 - 2024

- Managed discussions with technology companies for potential collaborations and events.

Corporate Relations Executive | Technology Summit 2023 | DLSU

2023

- Identified and reached out to potential partner companies for sponsorship opportunities.

Internal Relations Officer | Google Developers Students' Club | DLSU

2022 - 2023

- Pitched partnership proposals and assessed incoming proposals from campus organizations within the university.

President | Young Entrepreneurs Club | Philippine School Bahrain

2019 - 2020

- Led the club's initiatives by planning agendas, presiding over meetings, and delegating tasks to officers and members.