

# Jean Cabrera

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## Education

### De La Salle University

Bachelor of Science in Computer Science, Major in Software Technology.

Awards: **Summa Cum Laude** (CGPA: 3.82/4.00), **Jose Rizal Honors Society**

Coursework: Distributed Computing, Advanced Database Systems, Data Structures & Algorithms.

Manila, Philippines

August 2025

## Technical Skills

**Languages:** C#, Java, Python, JavaScript (Node.js/Express), Kotlin, C/C++

**Databases:** SQL (MySQL, SQLite, BigQuery), MongoDB, Firebase (NoSQL)

**Frontend:** HTML5, CSS3, EJS, Tailwind CSS, Bootstrap, Figma

**Competencies:** MVC Architecture, ETL & Data Migration, Agile/Scrum, QA Automation

**Spoken Langs:** English (Proficient), Filipino (Native), Chinese (Mandarin & Hokkien: Basic)

## Experience

### Private Retail Client

Manila, Philippines

#### Software Developer (Contract)

Aug 2024 – Dec 2025

- Developed an **EJS/Node.js** intranet application to replace legacy **Microsoft Access** systems.
- Migrated historical data into **SQLite** to ensure database portability across local hardware.
- Architected the system using **MVC patterns** with **PowerShell** scripts for auto-deployment.
- Engineered optimized data fetching logic, reducing load times from **30 seconds to sub-1 second**.
- Integrated **Vanilla JavaScript** for frontend logic to mirror legacy workflows and minimize training.

### Abenson Ventures, Inc.

Manila, Philippines

#### Product Development Intern

May 2024 – July 2024

- Collaborated in an **Agile/Scrum team** to develop data-driven features for the Abenson ecosystem.
- Migrated **multi-million rows** of sales data across 7 business units into a centralized SQL database.
- Built **BigQuery** dashboards to transform raw sales datasets into executive-level visual insights.
- Developed a **web-based tool** to automate test data generation, reducing manual setup time.
- Scripted **50+ automated test cases** using **Katalon Studio** to streamline the QA pipeline.

### Unbound MNL

Manila, Philippines

#### Backend Developer

Sept 2023 – Dec 2023

- Developed a **Node.js/Express** backend using **MVC architecture** to manage NGO financial workflows.
- Engineered a **3-tier RBAC system** and **RESTful APIs** to secure sensitive loan and savings data.
- Implemented a **MongoDB** schema to track transaction histories, utilizing **EJS** and **Bootstrap** for the UI.
- Collaborated in a **6-person team** using **Agile/Scrum** methodologies to deliver the platform via **Render**.

## Publications

### Designing a Collection of Portable Image Enhancement for Smartphones

2025

*2025 31st International Conference on Mechatronics and Machine Vision in Practice (M2VIP)*

View on IEEE Xplore: Document 11165605

- Developed a 5-stage photography pipeline delivered as a **functional mobile application** using **Kotlin**.
- Adapted **Super-resolution**, **Dehazing**, and **Shadow Removal** algorithms for mobile execution.
- Conducted **ONNX model conversion** and optimized runtime logic for **resource-constrained hardware**.
- Validated results with **<5% SSIM degradation** relative to **unconstrained desktop baselines**.

## Technical Projects

**ArcherHub: Distributed Enrollment System** | *Full-Stack Developer* 2025

- Engineered a **distributed C#/ASP.NET Core** ecosystem across 5 servers with independent databases.
- Implemented **JWT** and **3-tier RBAC** securing cross-server API calls and hierarchical user access.
- Developed the **integration logic** to synchronize **Razor Pages** UI with distributed backend data.

**OrganizeIT: Barcode-Integrated Retail System** | *Mobile Developer* 2025

- Developed a native **Android/Kotlin** POS application with real-time **Firebase** synchronization.
- Integrated **Google ML Kit** for hardware-accelerated barcode scanning and product entry.
- Engineered a **NoSQL persistence layer** for dynamic stock management and transaction history.
- Implemented a **transactional cart system** with automated stock deduction and data integrity.

## Leadership & Activities

**Microsoft Student Community (DLSU-MSC)** | *Executive of External Relations* 2021 – 2024

- Coordinated outreach and successfully connected with **nine industry professionals** for **AI-related projects**.
- Managed **professional communication** between student members and **technology industry contacts**.

**University Student Government (USG-OVPIA)** | *Executive of Documentations* 2023 – 2024

- Managed **administrative lifecycles** for **nine large-scale projects**, ensuring record accuracy and compliance.
- Streamlined **documentation workflows** for multi-month projects to facilitate seamless team handovers.

## Affiliations

**Research Member** | DLSU Center for Computational Imaging and Visual Innovations (CIVI)

**Research Member** | DLSU Game Development Laboratory (GAMELab)