

Jean Cabrera

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Education

De La Salle University

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

Manila, Philippines

August 2025

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

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

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
- Orchestrated outreach and secured **nine industry experts** for **AI-focused** technical initiatives.
 - Facilitated **professional correspondence** between student members and emerging technology leaders.
- 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)