

# CHRISTIAN SABARRE

## About me

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Filipino-American Information Systems student specializing in data science and analytics with hands-on experience in machine learning, web development, and statistical analysis. I build end-to-end data science solutions from predictive modeling and data preprocessing to interactive dashboards and web applications that transform complex datasets into actionable business insights. Currently seeking data science and analyst opportunities where I can leverage my full-stack development background and machine learning expertise to drive strategic decision-making through data-driven solutions.

## Skills

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**Programming Languages:** Python(Pandas, NumPy, Matplotlib, Scikit-Learn, Plotly, Seaborn), C# (MVC), JavaScript, Kotlin(MVVM)

**Frameworks:** Django, React, Angular, Jetpack Compose, Flask

**Databases:** SQL Server, MySQL Tools: Power BI, Jupyter, Excel

## Projects

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### Linear Regression Model to Predict Insurance Charges

Aug 2025

- Developed a machine learning application that predicts health insurance charges based on personal factors including age, BMI, smoking status, number of children, sex, and geographic region, achieving 74% accuracy. Using a Kaggle insurance dataset, I built and trained a model that processes user inputs through a clean web interface to provide real-time premium estimates.
- Utilized Flask for web, scikit-learn for model development, and pandas for data preprocessing, demonstrating end-to-end ML pipelines.

### Manila 2025 Midterm Election Data Analysis & Visualization

Aug 2025

- **Political Data Analytics & Web Scraping:** Web scraped election data from COMELEC and survey sources, then cleaned and processed datasets using Python Pandas for Manila's 2025 midterm elections across 895 barangays, revealing that 62% of voters made last-minute decisions that traditional polling methods failed to capture
- **Election Data Visualization Pipeline:** Developed end-to-end data pipeline from web scraping to PowerBI visualizations, comparing pre-election surveys with actual results to explain unexpected outcomes (Isko's mayoral landslide, Bam Aquino's senatorial performance) and analyze grassroots campaigning effectiveness

### MedInfo - FDA Drug Search

Aug 2025

- **Mobile Development:** Built native Android application using Kotlin and Jetpack Compose with MVVM architecture, featuring reactive UI components, coroutine-based asynchronous operations, and comprehensive error handling for seamless user experience across drug search and information display.
- **API Integration:** Integrated openFDA Drug Database API (<https://open.fda.gov/apis/>) using Retrofit to fetch real-time FDA adverse event data, implementing custom data processing algorithms to aggregate drug information, safety warnings, dosage details, and manufacturer data into user-friendly medical information cards.

### Friendly City Cleaning – Cleaning Booking Website

June 2025 - August 2025

- Created a booking website for cleaning services. This comes with an interactive calendar for users to book cleaning appointments and an Admin dashboard
- Utilized Tailwind CSS for better user experience and a mobile responsive website.
- Utilized the Paypal API for payments upon booking through the interactive calendar
- Has a body-camera feature for admins to upload a google drive link of a video or mp4's in order for users to view how their establishment has been cleaned.

#### Marvel Cinematic Universe Phase 3 Analysis on its Dominance – Exploratory Data Analytics Project

July 2025

- Utilized **Python** for data cleaning and eliminating outliers
- Created a visualized dashboard using Microsoft Power BI showing an analysis on how Marvel earned its most during its Phase 3

#### Habit World -- Habit tracker that lets you track habits

May 2025

- **Full-Stack Web Development:** Developed a comprehensive habit tracking web application using Python Django framework with Django Templates for server-side rendering and Django REST Framework for API endpoints, implementing user authentication, habit CRUD operations, and progress tracking, with SQLite database integration.
- **Frontend Design & User Experience:** Created responsive, mobile-first user interface using Bootstrap CSS framework with custom styling, featuring intuitive habit creation workflows, interactive progress dashboards, streak tracking visualizations, and seamless cross-device compatibility for optimal user engagement and habit formation support.

#### Enhanced Enlistment System: Course Categorization and Prerequisite Management

April 2025

- **Enhanced Enlistment System:** Designed and implemented a relational database system with 9 interconnected tables to automate student course enrollment, featuring complex prerequisite validation queries and self-referential many-to-many relationships that eliminated manual eligibility checking
- **Academic Workflow Management:** Developed SQL-based business logic to enforce course prerequisites, grade validation, and multi-stage enrollment status tracking (INITIAL→SAVED→SUBMITTED→APPROVED), reducing enrollment errors and improving user experience

## Work Experience

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#### SD Solutions – [FullStack.NET](#) Developer Intern –PHILIPPINES

July 2023 - September 2023

- Collaborated on the E-Pay Project, addressing and resolving issues raised by the Bureau of Internal Revenue (BIR).
- Utilized AngularJS, C#, and ADO.NET to enhance application performance and user experience.
- Converted the MVC framework of VictoryLiner Time-Keeping to an AngularJS version, improving maintainability and scalability.
- Skills: C# · AngularJS · JavaScript · Critical Thinking

## Education

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**Bachelor of Science in Information Systems** – De La Salle College of Saint Benilde

September 2023 -- Present

**Bachelor of Science in Computer Science** – University of the Philippines

September 2022 - July 2023

