

# John Patrick T. Marcellana

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Las Piñas City, Philippines • jptmarcellana@gmail.com • (+63) 9561520056 • <https://github.com/MrRyushi>

## Education

### DE LA SALLE UNIVERSITY

BS in Computer Science. GPA: 3.615/4.0

Thesis: A Comprehensive Benchmark on Non-Frontal Lip Reading

Relevant Coursework: Data Structures and Algorithms, Web Application Development, Advanced Intelligent Systems, Advanced Software Engineering, Mobile Development, Advanced Database Systems

Manila, Philippines

February 2026

### MAPUA UNIVERSITY

Senior High School

Science, Technology, Engineering, Mathematics

Manila, Philippines

June 2021

## Technical Skills & Projects

**Languages:** C, C++, Python, Java, JavaScript, SQL

**Frameworks:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, Bootstrap,

**Databases:** Firebase, MongoDB, MySQL

**Tools:** Git, Figma, Canva

### SkillMatch AI: AI-Powered Skills Gap Analyzer

August 2025

- Built a tool that compares a candidate's résumé with job descriptions to identify matched and missing skills.
- Implemented NLP-based text analysis and recommendation logic to provide personalized career improvement insights.
- Developed using Python, Hugging Face Transformers, and React.js.

### Sentimetry: AI-Driven Journaling App

Jan. 2024 - Apr. 2024

- Created a full-stack journaling application using React.js, Node.js, Express.js, and Firebase for authentication and data storage.
- Integrated Hugging Face NLP models (Python) to perform emotion detection and tailored feedback generation.
- Applied TailwindCSS for responsive UI and seamless user experience.

### Multivault: Inventory Management System

Jan. 2024 - Apr. 2024

- Developed a system to help businesses track inventory levels, expiration dates, and perishables, with automated low-stock alerts.
- Collaborated in a Scrum team applying Agile principles for sprint planning, testing, and deployment.
- Built with React.js, Node.js, Express.js, and Firebase.

## Relevant Experience

### MATCHMO

Muntinlupa, Philippines

#### Software Engineering Intern

May 2024 - August 2024

- Conducted manual QA testing for Matchmo's web and mobile platforms, identifying and documenting 30+ bugs and UI defects in ClickUp to enhance product reliability and user experience.
- Developed a Next.js PDF input mapping tool that automated digital form-to-PDF workflows, reducing manual data entry by ~40% and improving processing speed and accuracy.
- Implemented 10+ responsive blog pages from Figma designs using TailwindCSS and Next.js, ensuring 100% design fidelity and smooth cross-device performance.