

Joywin Neil Lasrado

Portfolio: <https://joywinlasrado.vercel.app>

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EDUCATION

- St. Joseph Engineering College** Mangaluru, India
Bachelor of Engineering - Computer Science and Engineering (Data Science); GPA: 8.27 December 2022 - June 2026
- St. Aloysius Pre-University College** Mangaluru, India
PUC - PCMC (Physics, Chemistry, Mathematics, Computer Science); Percentage: 81.6 June 2020 - March 2022

SKILLS SUMMARY

- Programming Languages:** Python, C, SQL, Java, R, PHP.
- Frameworks:** Spring Boot, Laravel, Flutter.
- Other Tools & Technologies:** AWS, Git, MySQL, Linux, Postman, Docker, ETL, AWS S3, AWS EC2, Data modeling, API Development, Prompt Engineering, Claude AI, Gemini AI.
- Soft Skills:** Leadership, Problem-solving, Time Management, Attention to Detail, Communication.

WORK EXPERIENCE

- Petrocon Engineers and Consultants** Mangaluru, India
Software Engineer Intern February 2026 - March 2026
 - Key Responsibility 1:** Engineered scalable RESTful APIs using Laravel, implementing core business logic and routing to support web application features.
 - Key Responsibility 2:** Conducted rigorous endpoint testing and validation using Postman, ensuring secure data handling, fast response times, and zero-defect API integration, while gaining practical exposure to AWS cloud environments.

PROJECTS

- EventPass: Full-Stack Event Booking & Management Platform:** <https://github.com/JoywinNeilLasrado/Event-Pass>
PHP, Laravel, MySQL, Tailwind CSS, Flutter, Dart, REST API
 - Backend Architecture & APIs:** Architected a robust MVC backend utilizing Laravel and PHP 8.4, implementing secure Role-Based Access Control (RBAC) middleware for multi-role user dashboards, and designed elegant RESTful APIs to seamlessly sync data with mobile clients.
 - Payment & Order Integration:** Engineered a complete, secure checkout pipeline by integrating the PayU payment gateway, enabling automated order tracking, payment processing, and refund status management.
 - Concurrency & Booking Integrity:** Engineered a high-performance transactional ticket booking engine using database-level pessimistic locking (`lockForUpdate()`) within ACID transactions, successfully eliminating race conditions and ticket overselling under heavy concurrent user loads.
- GradePoint: Advanced Academic Grade Calculator:** <https://github.com/JoywinNeilLasrado/sgpa-cgpa-calculator.git>
Java 21, Spring Boot 3, Spring Security (JWT), Spring Data JPA, PostgreSQL, MapStruct, OpenPDF, Vite, SCSS
 - Backend & Security Architecture:** : Architected a highly secure, robust RESTful academic portal utilizing Spring Boot and Java 21, implementing JWT token rotation, Role-Based Access Control (RBAC) for dedicated admin, faculty, and student dashboards, and hybrid rate-limiting with audit logs.
 - Core Calculation & Reporting:** Engineered a dynamic 10-point grading scale computation engine for SGPA/CGPA calculations, integrating an automated PDF transcript generator via OpenPDF and a comprehensive testing suite (40+ test classes, 88% coverage) to ensure mathematical precision.
 - Frontend & Performance Analytics:** Developed a highly responsive, modern frontend utilizing modular SCSS and Vite, implementing glassmorphic UI components, skeleton loading screens, interactive performance charts, and real-time toast feedback systems.
- Air Quality Index (AQI) Predictive Model:** <https://github.com/JoywinNeilLasrado/AQI-prediction>
Python, Scikit-learn, Pandas, Data Visualization, Streamlit/Flask
 - Data Pipeline & EDA:** Conducted comprehensive Exploratory Data Analysis (EDA) across massive environmental datasets, utilizing Pandas and Matplotlib to identify pollution trends and feature correlations.
 - Predictive Modeling:** Engineered and trained robust machine learning regression models to accurately forecast Air Quality Index (AQI) metrics based on historical atmospheric data.
 - Web Deployment:** Developed and deployed an interactive web application to integrate the trained machine learning model, enabling end-users to input custom parameters and receive real-time AQI predictions.

CO-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Web development challenge:** Led a collaborative team and delivered an innovative cloud-ready web solution to secure 1st place in this event.
- Class Representative:** Served for 4 consecutive years. Facilitated communication with attention to detail.
- Joint Secretary:** Coordinated student body activities and academic networking events to promote engagement across departments.