

SEBASTIAN AUGUSTINO LIE

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Informatics Engineering student who builds software that real people use, from a POS system for a small business owner to AI-powered infrastructure monitoring.

ABOUT ME

Informatics Engineering student at Padjadjaran University with hands-on experience in software development and machine learning projects. Recently developed a Point-of-Sales system for a local food business through a scholarship program and contributed to an ML-based solar power plant monitoring system. Active in student organizations, including leading the Human Resources team, where I developed skills in team coordination, communication, and organizational development. Passionate about building practical solutions and continuously learning through real-world projects.

PROJECTS

Lawang Sewu POS

Apr 2026 to Present

Scholarship Program

- Built a full-stack POS system for a local eatery to digitize their traditional bookkeeping.
- Cut the owner's bookkeeping time and minimized recording errors & employee fraud
- Handled end-to-end: frontend, backend, and deployment (React + Laravel + MySQL + Vercel + Hostinger)

AI ORBIT Solar Monitoring

May 2026 to Present

AI Course Final Group Project

- Built an agentic ML system detecting anomalies in solar power plants
- Integrated 5 ML models with a 3-layer agent architecture & Telegram alerts
- Role: Fullstack : ML pipeline, dashboard, and system integration

Badminton Court Booking System

Nov 2025 to Dec 2025

OOP Course Final Group Project

- Desktop booking app with role-based auth & anti-double-booking logic
- Applied core OOP principles (encapsulation, inheritance, polymorphism)
- Role: Frontend : built login, booking forms, admin panels, and made contributions to the backend.

Orbit E-Commerce

Oct 2025 to Dec 2025

Web Development Course Final Group Project

- Built and deployed a fullstack electronics store (smartphones, laptops, tablets, smartwatches) live on Railway
- Developed the full shopping flow end-to-end: catalog, cart, checkout, promo system, and search auto-complete
- Role: Fullstack, handled frontend, backend, and deployment, resolving migration & foreign-key issues on launch

Healthcare Diagnosis System

May 2025 to Jun 2025

Data Structures Final Group Project

- Built a simulation that diagnoses patients and routes them to the right service using a Decision Tree
- Managed doctor data with Multi Linked Lists and patient scheduling with a Queue
- Role: Backend, implemented the decision tree traversal and queue logic from scratch

AREAS OF EXPERTISE

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|--------------------------------|-------------------------------|---------------------------|---------------------------------|
| • Fullstack Web Development | • Object Oriented Programming | • Database Design (MySQL) | • Machine Learning Fundamentals |
| • Data Structures & Algorithms | | | |

ACCOMPLISHMENTS

Awardee of Bakti BCA Scholarship 2026

EXPERIENCE

Head of Medical Division, Character Building Season - Led and coordinated the medical division during the event - Managed team responsibilities and medical preparation - Ensured participant health support and event safety procedures	Jun 2025 to Oct 2025
Project Officer, Pekan Penghayatan Dharma KMB Dharmavira - Led and coordinated the execution of the event program - Managed team coordination and event planning activities - Oversaw communication between divisions during event preparation and implementation	Sept 2025 to Nov 2025
Head of Human Resources, Himatif FMIPA Unpad - Led human resource management and internal organizational development - Coordinated member development and evaluation programs - Managed internal communication and team coordination within the organization	Feb 2026 to Present
Head of Executor, Character Building Season - Leading a cross-functional team of 44 staff across 4 divisions to execute direct participant-facing operations throughout the program - Orchestrating real-time coordination between divisions to translate event concepts and plans into on-ground execution, ensuring consistent participant experience and safety - Sustaining seamless synchronization across all four divisions to ensure planned activities are executed on schedule and aligned with program objectives	May 2026 to Present
Deputy Head of Internal Development Department, KMB Dharmavira - Co-leading the Internal Development Department alongside the Department Head, coordinating a team of staff to design and run member development programs, internal evaluation systems, and community-building activities - Overseeing execution of training, mentoring, and bonding initiatives to strengthen member engagement and organizational cohesion throughout the term - Supporting internal evaluation processes to track member growth and inform department strategy alongside leadership	August 2026 to Present

EDUCATION

SMA Sutomo 1 High School Diploma Completed high school education with involvement in academic and extracurricular activities	Jul 2021 to May 2024
Universitas Padjadjaran Bachelor's Degree, Computer Science GPA :3.69/4.00 - Currently pursuing a Bachelor's degree in Computer Science - Studying software development, databases, algorithms, operating systems, and web development - Actively involved in organizational and committee activities alongside academic studies	Aug 2024 to Aug 2028

TECHNICAL PROFICIENCIES

Programming Languages:	C++, Python, JavaScript, PHP, Java
Web Development:	HTML, CSS, Laravel, React, Tailwind CSS
Database:	MySQL, SQL, Database Management
Tools & Platforms:	Git, GitHub, Figma, Docker, Vercel, Railway
Others:	Object-Oriented Programming, Machine Learning (XGBoost, LSTM)