

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

Staff of Human Resources, Himatif FMIPA Unpad - Assisted organizational human resource management and internal coordination - Supported organizational development programs and member engagement activities - Collaborated with teams to maintain effective communication and workflow	Jan 2025 to Dec 2025
Staff of Fundraising, IFEST UNPAD - Assisted fundraising activities during the event - Managed product sales and customer interactions at the venue - Helped achieve funding targets through team collaboration	May 2025 to Oct 2025
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
Head of Transportation and Logistics, Open House KMB Dharmavira - Coordinated transportation and logistics operations for the event - Managed equipment distribution and venue preparation - Ensured operational activities ran effectively during the event	Aug 2025 to Sept 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

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 :3.63/4.00 - 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)