JULIUS ROBERT E. SENOBIO

Full-Stack Developer | Backend & Infrastructure



jrsenobio.com | 09558364712 | jrsenobio@gmail.com | Calauan, Laguna

Full-Stack Developer and Information Technology student specializing in backend architecture, relational database engineering, and server infrastructure. Experienced in building RESTful systems with PHP and MySQL, configuring Linux VPS and AWS EC2 hosting environments, automating CI/CD pipelines with GitHub Actions, and managing web traffic using Cloudflare DNS and SSL. Practical background in training computer vision models (YOLO, RF-DETR), building conversational AI chatbots, integrating Web3 smart contracts, developing React Native applications, and implementing embedded Arduino systems. Focused on writing clear, reliable code with database integrity and security in mind.

Personal Details

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Address: Calauan, Laguna

Portfolio Website: jrsenobio.com

GitHub: github.com/centroidz

Skills

Soft Skills

- Team collaboration
- Continuous Learning & Adaptability
- Self-Directed & Autonomous
- Analytical Problem Solving
- Digital Literacy

Hard Skills

- Backend Architecture & API Development
- Cloud Infrastructure & Server Administration
- DevOps & Automation
- Mobile & Cross-Platform Development
- Applied AI & Computer Vision
- Web3 & Decentralized Technologies

Technical Skills

- Languages: TypeScript, JavaScript, PHP, Python, Solidity
- Frameworks & Libraries: Laravel, React, React Native, FastAPI, Flask, Tailwind CSS, Bootstrap

- Databases & Backend Platforms: MySQL, PostgreSQL, MongoDB, Firebase, Supabase
- DevOps & Cloud: Git, GitHub, GitHub Actions (CI/CD), Docker, Linux VPS, AWS EC2, Nginx, Cloudflare
- API Development & Testing: RESTful APIs, Postman
- AI & Computer Vision: YOLO26, RF-DETR, Roboflow, OpenCV

Relevant Experience

Independent Web Developer and Linux Server Administrator | Self-Employed | 2010–2016

- Developed and maintained a PHP mobile web (WAP) site, migrating from free hosting to cPanel shared hosting and later to self-managed CentOS VPS servers.
- Configured Apache, Nginx, and PHP-FPM; upgraded PHP environments and managed Cloudflare DNS.
- Administered OpenVZ and KVM VPS instances using SSH, SFTP, FTP(s), and Bash scripts.
- Deployed existing PHP and Python scripts on Google App Engine and modified Python code to resolve compatibility issues.

Community Website Developer | Independent Contributor | 2011–2012

- Contributed to a PHP and MySQL community web (WAP) site by developing and modifying features requested by VIP members.

Projects

SoilSync | React Native, Supabase, Laravel, Computer Vision

Backend, Mobile & AI Model Developer | April 2026 - October 2026

- Curated and annotated datasets in Roboflow, training and fine-tuning custom RF-DETR and YOLO vision models to automate real-time crop health diagnostics.
- Designed user-friendly mobile interfaces using React Native and built high-performance REST APIs to manage data processing workflows.
- Integrated cloud databases using Supabase to enable real-time data synchronization across all mobile endpoints.

LSPU Library Content Management System | Laravel, AI Chatbot

- Backend, Chatbot & Infrastructure Developer | 2025
- Built a content management system and REST APIs using Laravel to power administrative workflows and landing page rendering.
- Built and deployed an automated conversational AI chatbot to handle student and faculty inquiries, improving support response times and reducing manual help desk requests.
- Managed end-to-end server deployment, DNS routing, and Cloudflare security configurations to maintain steady uptime and performance.

CropTap | Web3, Solidity, Python FastAPI, AWS EC2

Web3 & Backend Infrastructure Developer | 2025

- Built decentralized Web3 infrastructure and EVM-compatible smart contracts in Solidity to automate and secure digital asset transactions.

- Created asynchronous bridge services using FastAPI, connecting off-chain application logic with on-chain smart contract events.
- Set up AWS EC2 infrastructure, configured Nginx reverse proxies, and established CI/CD pipelines via GitHub Actions for automated deployments.

PrimeCare | PHP, MySQL, Bootstrap 5, JavaScript, Cloudflare

Full-Stack & Backend/Database Developer | 2024

- Designed and built a secure healthcare platform connecting patients, medical staff, and administrators using custom Role-Based Access Control (RBAC).
- Implemented strong authentication protocols using bcrypt hashing, session security, and multi-factor email OTP verification via API integrations.
- Configured Cloudflare DNS management, SSL encryption, and security firewalls to protect endpoints against DDoS attacks and unauthorized access.
- Created responsive dashboards and appointment booking systems using Bootstrap 5, semantic HTML, and custom CSS.

Education

Bachelor of Science in Information Technology

Major in Web and Mobile Development

Laguna State Polytechnic University San Pablo

2023 – Present

Bachelor of Science in Electronics Communication Engineering

Laguna State Polytechnic University San Pablo

2007 – 2009

Certifications

National Certificate

- **NCII Computer System Servicing**



Republic of the Philippines

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY

NATIONAL CERTIFICATE II

in

COMPUTER SYSTEMS SERVICING

is hereby awarded to

JULIUS ROBERT E. SENOBIO

for having completed the competency requirements under the Philippine TVET Competency Assessment and Certification System in the following units of competency:

Unit Code	Unit Title
BASIC COMPETENCIES	
500311105	Participate in workplace communication
500311106	Work in a team environment
500311107	Practice career professionalism
500311108	Practice occupational health and safety procedures

Unit Code	Unit Title
CORE COMPETENCIES	
ELC724331	Install and configure computer systems
ELC724332	Set-up Computer Networks
ELC724333	Set-up Computer Servers
ELC724334	Maintain and Repair Computer Systems and Networks

Unit Code	Unit Title
COMMON COMPETENCIES	
ELC315202	Apply quality standards
ELC311203	Perform computer operations
ELC311201	Perform mensuration and calculation
ELC311202	Prepare and interpret technical drawing
ELC724201	Use hand tools
ELC724202	Terminate and connect electrical wiring and electronic circuits
ELC724205	Test electronic components

Issued on: **October 10, 2026**

Valid until: **October 09, 2031**

JOSE FRANCISCO "KIKO" B. BENITEZ

DIRECTOR GENERAL

Certificate No: **26043402034986**

ULI-SJE-90-262-04034-001

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