

# JONER DE SILVA

<https://yop-dev.vercel.app>  
<https://github.com/yop-dev>

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Versatile Computer Science graduate from Batangas State University – Alangilan, with a strong foundation in AI and software development. Experienced in building intelligent web applications, integrating machine learning workflows, and working with modern AI tools such as LangChain, OpenAI, Hugging Face, and Ollama. Equally effective in team-based and independent projects, I'm driven by the challenge of solving real-world problems through innovative and scalable technology solutions.

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## EDUCATION

### Batangas State University TNEU – Alangilan | Batangas City

2021 – 2025

Bachelor of Science in Computer Science [**Consistent Dean's Lister**]

*Relevant coursework in Data Structures and Algorithms, Web Development, Mobile App Development, Software Engineering, Cybersecurity, Databases, Discrete Mathematics, Calculus, Linear Algebra, Artificial Intelligence, Machine Learning, and Internet of Things.*

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### Manuel S. Enverga University Foundation | Lucena City

2019 - 2021

Science, Technology, Engineering, and Mathematics (STEM) [**With High Honors**]

*Calculus, Physics, and General Mathematics*

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## JOB / EXPERIENCE

### Intern at Pearl Energy Philippines Operating Inc.

- **Database Administrator**
- **Cybersecurity Assistant**
- **Technical Documentation Specialist**
- **Knowledge Transfer Support**
- **IT Operations Support**

At Pearl Energy Philippines Operating Inc., I maintained and troubleshooted internal database systems, including red tagging and ticketing tools. I also created cybersecurity advisories to promote safe practices within the company. Additionally, I documented my work through detailed reports and instructional guides to support knowledge transfer and continuity. This experience enhanced both my technical and communication skills while emphasizing the value of sustainable IT practices.

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## NOTABLE PROJECTS

- **Tuberculosis Early Detection through Cough Analysis Using Machine Learning - [Best Paper, ASCENT 2025 \(People Track\)](#) & [Best Thesis Award](#)** *A machine-learning framework that analyzes cough sound recordings to screen for tuberculosis noninvasively. The project leveraged the CODA TB DREAM Challenge dataset and developed a custom 2D CNN-based model, achieving high AUC and F1-score while maintaining low computational for real-time, on-device deployment in resource-limited settings.*
- **CareerLaunch AI** *get AI-powered feedback, personalized cover letters tailored to the job, and mock interview questions to help you practice and stand out, powered by groq.*
- **Unified Thesis Management and Defense Scheduling System** *A web application catered directly for university use for the purpose of having a smooth, innovated, and paperless thesis/defense. Implemented the user experience using MERN stack as the main backend developer.*
- **RA 10173 Compliance Checker.** *A web-app that helps organizations comply with the Data Privacy Act of 2012 in the Philippines, providing resources and tools for data protection.*

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## CERTIFICATIONS

- **Certified in Cybersecurity** | ISC2 - Acquired skills in mitigating and managing cybersecurity incidents and earned fundamental principles of cybersecurity.
  - **Open-source Intelligence** | **Basel Institute on Governance** - Acquired expertise in open-source intelligence (OSINT) techniques and methodologies.
  - **Security Operations Fundamentals** | **Palo Alto Networks** - Covered network security, threat intelligence, incident response, and cybersecurity best practices.
  - **Google Cloud Computing Foundations Certificate** - Completed foundational training on cloud computing concepts, including core Google Cloud services, cloud infrastructure, security, and best practices for deploying and managing applications in the cloud.
  - **Qualys – Vulnerability Management Detection and Response** - Learned how to identify, prioritize, and remediate vulnerabilities across an organization's digital infrastructure to enhance its overall security posture.
  - **CS50 – Introduction to Programming with Python** - Provided foundational knowledge and practical skills in Python programming, covering core concepts such as syntax, data structures, algorithms, and problem-solving techniques.
  - **CCNAv7: Introduction to Networks** | **CISCO** - Developed skills in network configuration, troubleshooting, and security fundamentals.
  - **AWS Educate Machine Learning Foundations** - Completed foundational training on machine learning concepts.
  - **AWS Educate – Machine Learning: DeepRacer** - Completed hands-on training focused on reinforcement learning using AWS DeepRacer. Gained experience in training, evaluating, and deploying autonomous driving models in a virtual racing environment.
  - **Elements of AI** — University of Helsinki & MinnaLearn - Completed an introductory course covering the basics of artificial intelligence, including its history, applications, machine learning principles, and ethical considerations.
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