Caroline Panggabean

Batam, Kepulauan Riau, Indonesia | +62 - 81270410240 | carolinepgabean@gmail.com

Portofolio: www.carolinep.me | LinkedIn: linkedin.com/in/carolinepgabean | GitHub: github.com/olinexs

Education

Jain University | Bangalore, India   **2021 – 2025**
B. Tech Computer Science and Engineering (Artificial Intelligence)
GPA: 3.70 / 4.00

Projects

ISO SPACE – ISO Documentation Automation Platform (Certified ISO/IEC 27001 and ISO/IEC 20000-1)
Project Lead & Backend Developer | Python, Flutter, Firebase, Google Cloud

- Developed an automation platform for ISO document generation and management (isospace.id).
- Built scalable backend logic and API workflows to ensure maintainable compliance documentation.

CekSertifikat.ID – National Organization (APPEKNAS) Membership & Certificate Management System
Full Stack Developer | PHP, MySQL
- Built a national certificate verification platform supporting organizations across 38 provinces in Indonesia.
- Implemented QR-based validation, database management, and admin tools for audit tracking.

Experiences

Oods Era Mandiri | IT & Digital Solutions Specialist   **Jun 2025 – Present**
- Designed an integrated digital platform connecting construction suppliers, project owners, and contractors to support collaboration and project workflow needs.
- Managed client-facing business development through direct meetings, partnership coordination with industry associations, and digital presence growth via website and social media strategy

Seiva Tekindo Persada | Project Lead Development *(Project-based)*   **Sep 2024 – May 2025**
- Led the end-to-end solution design for ISO documentation automation, defining system logic, workflow architecture, and scalable backend structure.
- Designed and implemented API integrations (Firebase-based) to enable structured compliance report generation and efficient document management.

Seiva Tekindo Persada | Assistant Consultant *(Online part-time)*   **Jul 2024 – Sep 2024**
- Reviewed and validated ISO 9001:2015 documentation to ensure audit-ready compliance.
- Ensured consistency and accuracy across records, supporting certification completion in 1.5 months.

Tomoe Valve Batam | IT Intern   **Jul 2023 – Aug 2023**
- Conducted system diagnostics and optimized internal IT operation workflows.
- Provided technical support and documented recurring issues for process improvement.

Skills & abilities

- **Programming:** Python, PHP, SQL
- **Machine Learning & Data:** Scikit-learn, Pandas, NumPy, Predictive Modeling
- **Backend & APIs:** REST API Design, Workflow Automation
- **Databases:** MySQL, SQL Server
- **Cloud & Tools:** Google Cloud Platform, Oracle Cloud, Git, Linux
- **Visualization:** Power BI, Tableau

Publications

Panggabean, C. (First Author) et al. (2024). Intelligent DoS and DDoS Detection: A Hybrid GRU-NTM Approach to Network Security. In: Proceedings of the 5th International Conference on Smart Electronics and Communication (ICOSEC 2024). IEEE. DOI:10.1109/ICOSEC61587.2024.10722438

Sarker, R., K., J., Panggabean, C. et al. (2025). AI-Driven Smart Parking with License Plate Recognition. In: Proceedings of the 1st International Conference on Pervasive Computational Technologies (ICPCT 2025). IEEE. DOI: 10.1109/ICPCT64145.2025.10940814.

Panggabean, C. (Co-inventor) et al. (2025). Beverage Preparing and Dispensing Device. India Patent Application No. 202541042823, filed 2 May 2025, published 30 May 2025

Leadership & Awards

- **Study in India Scholarship Awardee**, Ministry of Education, Government of India, 2021
- **Digital Innovation Strategist**, APPEKNAS (National Contractors Association), 2025 – Present
- **Vice President**, Persatuan Pelajar Indonesia in Karnataka (PPI Karnataka), 2024 – 2025
- **Media & Communications Lead**, PPI Karnataka, 2023 – 2024
- **Executive Member**, Federation of International Students' Associations Bangalore (FISA-B), 2023 – 2025