

# CLARA VALENTINA

Surabaya, Jawa Timur

☎ 089-541-076-8812 ✉ [claravalentina004@gmail.com](mailto:claravalentina004@gmail.com) [in linkedin.com/in/claravalentina004](https://www.linkedin.com/in/claravalentina004) [github.com/clar04](https://github.com/clar04) [porto-clara.vercel.app](https://porto-clara.vercel.app)

## Summary

IT undergraduate passionate with Data and Software Development. Experienced in building responsive web apps and real-time data pipelines using React, Python, and Apache Kafka. Eager to create impactful tech solutions through clean UI and data-driven insights.

## Education

**Sepuluh Nopember Institute of Technology**

*Undergraduate Student in Information Technology | GPA: 3.59/4.00*

**Aug. 2022 – Now**

*Surabaya, Jawa Timur*

## Relevant Coursework

- Data Structures and Object-Oriented Programming
- Database Systems
- Introduction to Algorithms and Programming
- Web Programming
- Cloud Computing
- Big Data and Data Lakehouse
- Artificial Intelligence and Machine Learning
- Mobile Application Development

## Academic Projects

**Dashboard Admin – Employee Management System** | *React, React Router DOM, Tailwind CSS, Vite* **2025**

- Built a responsive admin dashboard with user authentication and CRUD operations for employee records.
- Implemented search, pagination, and profile editing with dark/light theme toggle.
- Styled using Tailwind CSS and optimized performance using Vite and ESLint.

**Berita Kini – News Aggregator** | *React, Axios, Tailwind CSS, React Router DOM* **2025**

- Developed a news aggregator web app displaying articles from various Indonesian sources.
- Enabled filtering by category/source, and built recommendation logic for similar articles.
- Used Axios for fetching data and applied modern UI design using Tailwind CSS.

**Real-Time Property Recommendation System for Melbourne** | *Python, Apache Kafka, MinIO, Docker* **2024**

- Developed a real-time property recommendation system for the city of Melbourne.
- Built an interactive dashboard to analyze sales trends and customer behavior using Python.
- Integrated data streaming and storage solutions using Apache Kafka and MinIO, deployed via Docker.

**Customer Review Emotion Classification** | *Python, Pandas, TensorFlow, Sastrawi, scikit-learn* **2024**

- Implemented emotion classification for customer reviews using deep learning models.
- Processed textual data in Bahasa Indonesia using Sastrawi for better model accuracy.
- Trained models using TensorFlow and evaluated them using scikit-learn metrics.

**Biomedical Cancer Publication Classifier** | *Python, PySpark, Pandas, TensorFlow* **2024**

- Built a machine learning pipeline to classify biomedical text publications into specific cancer types.
- Leveraged Apache Spark (PySpark) for distributed processing of large-scale biomedical data.
- Applied NLP techniques and TensorFlow models to extract and classify relevant information.

## Technical Skills

**Languages:** JavaScript, HTML5, CSS3, Python, C++, SQL

**Frontend Tools:** React.js, Tailwind CSS, Next.js, Nuxt.js, Streamlit

**Data & ML Tools:** Pandas, scikit-learn, TensorFlow, Apache Spark (PySpark), Kafka, MinIO, Docker

**Developer Tools:** Git, GitHub, GitLab, VS Code, Excel, Google Sheets

## Leadership / Extracurricular

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### IT Journalistic Club

**July 2024 – Present**

*Staff of News Division*

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- Produced and edited copywriting content for Instagram to increase audience engagement.
- Researched, wrote, and published news articles for the department website to inform students about recent activities and achievements.
- Collaborated with other divisions to align content with the club's communication strategy.

### Himpunan Mahasiswa Teknologi Informasi

**March 2024 – December 2024**

*Staff of External Relations Division*

*Surabaya, Jawa Timur*

- Successfully organized **IT Global Connect**, a flagship program connecting students with global education and scholarship opportunities.
- Exceeded KPIs by increasing participant engagement by 30% compared to the previous year.
- Coordinated end-to-end event management: drafted proposals, managed stakeholder communications, arranged logistics, and conducted post-event evaluations.
- Worked in a dynamic team to handle crisis management and problem-solving during event execution.

### ITS Astronomy Club

**February 2024 – December 2024**

*Head of Internal Department*

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- Planned, managed, and supervised 5 internal work programs with 8 staff members to strengthen member engagement and development.
- Delegated tasks, monitored progress, and ensured timely completion of department activities.
- Facilitated regular meetings and coordinated with other departments to align club objectives.

### ARA 5.0

**October 2023 – June 2024**

*Staff of Roadshow Division*

*Surabaya, Jawa Timur*

- Designed and developed the roadshow concept to promote ARA 5.0 events across various senior high schools.
- Created engaging presentation materials and handled on-site execution to reach wider audiences.
- Collaborated with the creative and public relations teams to align branding and promotional strategies.

### ITS Astronomy Club

**October 2023**

*Treasurer, INOMN (International Observe the Moon Night) 2023*

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- Managed and recorded all financial transactions for the International Observe the Moon Night event with accuracy and transparency.
- Prepared financial reports and budget accountability documents for the club's internal audit.
- Coordinated with the event committee to ensure cost efficiency and proper allocation of funds.