



# Nicholas Howard Gouwtama

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<https://github.com/NicholasHG25>

<https://nicholas-hg-portfolio.vercel.app/>

## Summary

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Highly motivated Informatics Technology student in the 5th semester, specializing in Modern Web Development and Insight-Driven Data Analysis. Proficient in building web applications using HTML, CSS, and JavaScript, and skilled in data analysis and manipulation using Python and SQL. Eager to leverage strong problem-solving skills, teamwork, and creativity to effectively contribute to innovative IT projects.

## Education

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Bachelor of Informatics Engineering | Aug 2023 - Present

Tarumanagara University, Jakarta

Expected Graduation: 2027 | GPA: 3.43 / 4.00

## Skill

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- **Programming Languages:** Python, PHP, Java, C++, Flutter, Dart.
- **Web Development:** Next.js, React JS, Express JS, Node JS, HTML, CSS, JavaScript, TypeScript.
- **Database Management:** PostgreSQL, MongoDB, Firebase, Oracle SQL, MySQL.
- **Data Science:** Python, Numpy, Matplotlib, PCA, K-Means.
- **Tools & Other:** Git/GitHub, Microsoft 365 (Excel, Word, Teams, OneDrive), Canva, Figma.
- **Language:** Bahasa Indonesia, English.
- **Soft Skills:** Honesty, Disciplined, Team Work, Responsibility, Creativity, Fast Learner, Problem Solving.

## Project

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### Taipei Real Estate Property Clustering Analysis Using PCA and K-Means | May 2025

- Utilized Principal Component Analysis (PCA) for dimensionality reduction and applied the K-Means algorithm to cluster a real estate valuation dataset.
- Conducted a complete data workflow, including preprocessing and ensuring data integrity by identifying and removing outliers using Mahalanobis Distance.
- Produced four distinct market segments (e.g., Suburban, Premium) by analyzing the resulting clusters, providing actionable insights for strategic decision-making.

### Stay Healthy - Health & Fitness Website | Aug 2024 - Oct 2024

- Built a responsive multi-page health and fitness website using HTML, CSS, and JavaScript.
- Designed a clean UI with exercise guides, nutrition tips, and interactive features like a carousel and contact form.