



# MUHAMMAD AFZAAL GHAIYYAS

## BUDI NURENDRA

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<https://afzaal-portfolio-sigma.vercel.app/>

### SUMMARY

Proactive Information Technology student in the 5th semester with a focus on Data Analysis, Full-Stack Development (Next.js), and Database Management (SQL). Experienced in building advanced data models (PCA, K-Means) and developing functional e-commerce web applications, supported by strong leadership and communication skills as a Google Student Ambassador.

### SKILLS

- Data Science:** Python (Pandas, Numpy), Matplotlib, PCA, K-Means.
- Web Development:** Next.js, React.js, Node.js, Express.js, HTML, CSS, JavaScript, TypeScript.
- Programming Languages:** Python, JavaScript, C++, PHP, Dart, Flutter.
- Database Management:** PostgreSQL, MySQL, MongoDB, Firebase, Oracle SQL.
- Tools & Others:** Git/GitHub, Microsoft 365 (Excel, Word, Teams, OneDrive), Canva, Figma.
- Soft Skills:** Problem Solving, Time Management, Critical Thinking, Teamwork, Leadership, Adaptability.

### PROJECTS

#### Analisis Faktor Utama Penentu Nilai Properti di Taipei Menggunakan PCA dan K-Means untuk Clustering pada Dataset Real Estate Valuation

May 2025

- Applied PCA and K-Means Clustering on the Real Estate Valuation dataset to identify key factors influencing property values and segment the market into four clusters (Suburban, Urban Modern, Premium, and Commercial).
- Performed data preprocessing, including outlier detection with Mahalanobis Distance, to improve clustering accuracy and ensure high data quality.

**Technologies:** Python, MATLAB, PCA, K-Means, Mahalanobis Distance

#### Nitroster - Coffee Business E-Commerce Website

Apr 2025 – May 2025

- Developed an e-commerce platform connecting local coffee businesses with customers, supporting MSME digitalization and expanding market accessibility

**Technologies:** Next.js, TypeScript, Node.js, Express, MongoDB, Tailwind CSS

For more detailed project descriptions and code repositories, please visit my [LinkedIn](#) and [GitHub](#) profiles.

### ORGANIZATION EXPERIENCE

#### Google Student Ambassador

Sep 2025 - Present

Tarumanagara University, Jakarta

- Represented Google as the primary campus liaison, leading key initiatives that connected the company with the student community.
- Increased awareness and adoption of Google products including AI-powered tools through strategic communication and collaborative campaigns.
- Facilitated training sessions and presentations demonstrating the practical use of Google's technology and AI tools for hundreds of students.

### EDUCATION

#### Bachelor of Informatics Engineering

Aug 2023 - Present

Tarumanagara University, Jakarta

GPA 3.86 of 4.00 | Specialization: Data Mining