

Zahran Alvan Putra Winarko

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EDUCATION

Institut Teknologi Bandung

Bachelor of Computer Science

Bandung, Indonesia

Sep. 2024 – Present

SMAN 2 Nganjuk

Mathematics and Natural Science

Nganjuk, Indonesia

Aug. 2020 – July 2023

EXPERIENCE

Explorer - Google Developer Student Clubs ITB

Path AI

Apr 2025 – Present

GDGoC ITB

- Completed an intensive curriculum *Intro to AI and Python, Mathematical Foundations and Data Visualization*
- Completed an intensive curriculum *Machine Learning Fundamentals and Regression Analysis*
- Completed an intensive curriculum *Supervised and Unsupervised Learning*
- Completed an intensive curriculum *Deep Learning and Neural Networks*
- Completed an intensive curriculum *Intro to NLP and From NLP to LLM*
- Completed an intensive curriculum *From NLP to LLM*

Staff - Wisuda Oktober HMIF ITB 2025

Sponsorship Division

Sep 2025 – Oct 2025

HMIF ITB

- Managed a database of 50+ potential sponsors using spreadsheets to track outreach progress and funding status
- Coordinated with external stakeholders to ensure mutually beneficial agreements for the graduation event
- Executed strategic outreach to over 50+ potential corporate partners and startups to secure funding for the event.

PROJECTS

GDGoC AI Hands On | Pandas, NumPy, Matplotlib, Seaborn

Aug 2025 – Oct 2025

- Sales data analysis report
- Titanic dataset analysis report
- Boston Housing dataset analysis report
- Titanic passenger safety predictions
- Mall Customers clustering analysis report
- Neural Network model training report
- Sentiment analysis report: IMDB Movie Reviews

EduHub | Java, JavaFX, Maven, Git

Sep 2025 – Dec 2025

- Developed desktop-based LMS software with basic OOP paradigm
- Using a Figma for design app and JavaFX for the GUI
- Using SQLite as database for the desktop app
- Git as platform for teamwork

EigenPustaka | React, Tailwind, Vite, Python, PostgreSQL, Docker

Nov 2025 – Dec 2025

- Developed a comprehensive book recommendation system with Linear Algebra and Geometry Fundamentals
- Built the front end using React, Tailwind, Vite
- Built the backend using Python with relevant libraries

TECHNICAL SKILLS

Languages: Python, C/C++, Haskell, HTML/CSS, Typescript, Java, JavaScript, SQL

Tech Stack: Node.js, React, Next.js, Tailwind, Vite, FastAPI

Developer Tools: Git, Docker, Google Colab, Google Cloud Platform, VS Code

Libraries: Scikit-learn, NLTK, Keras, TensorFlow, Pytorch, OpenCV, Etc

Academic Papers:

Pemetaan Jaringan Blockchain Sebagai Graf Terhubung : Analisis Diameter, Clustering, dan Kerentanannya

Comparative Analysis of Face Recognition: Eigenfaces (PCA) vs Fisherfaces (LDA) under

Varying Facial Expressions and Illumination