

Brian Nicholas Tedjo

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EDUCATION

Bina Nusantara University

2024 – Expected 2028

Computer Science (Current GPA: 3.93/4.00)

- Currently taking Artificial Intelligence track with focus on Machine Learning and Deep Learning
- Awards: Dean's List 2025

PUBLICATIONS

“Hypertensive Retinopathy Classification Through Dual-Channel Clinical Feature Fusion and Discriminant Correlation Analysis”

July 2026

2nd author, Accepted & presented at ISNPINSA 2026

- Co-developed a machine learning approach for classifying clinical features of Hypertensive Retinopathy. Targeting a reliable way to diagnose a medical decision based on feature can be interpreted by human clinicians. Achieved final average accuracy score of 64.89% in combination of each features

“Decoding Neural Representations: CAV-Based Activation Engineering for Explainable Brain Tumor Segmentation across Multiple Architectures”

August 2026

1st author, Accepted & presented at ICORIS 2026

- Developed an implementation of Concept Activation Vectors concept to increase segmentation result. Increased the Dice score of 4 different computer vision model by 0.04-0.22% with statistically significant result ($p=0.006-0.48$).

EXPERIENCES

Lani Learning Center

July 2024 – January 2026

Non-formal tutor/teacher

- Mastering mathematic, physic, and chemistry at Highschool level.
- Teached and helped students in school subjects for more than 30 high school students from 4 different schools.

Dewan Keluarga Kolese Loyola (Student Council)

2022 – 2023

Public Relations

- Planning, executing, and evaluating a total of 12 school's programs for more than 1000 students along one year. Collaborating and organizing committees consist of different member on every program.

PROJECTS

Onoma Trace

April 2026

ML Engineer & Deployment

- Built sites that predict countries of origin for a romanized personal name across ~104 countries. Using Logistic Regression, Linear SVM, and SGD Classifier. Reached Top-5 Accuracy of 77.1%, 74.9%, and 74.6%. Designed the user interface and shipped using Hugging Face Spaces.

Indonesian Swear Words Detector

April 2026

ML Engineer & Deployment

- Text classification on Indonesian sentences using pretrained IndoBERTweet and 3 classical models. Classified Indonesian text into 4 levels of abusive language. Reaching Macro-F1 of 0.74 for Logistic Regression, 0.72 for SVM, 0.71 for IndoBERTweet, and 0.65 for Naïve Bayes.

Anakara

July 2026

Full Stack Developer

- Built a full stack application using Next JS. A learning platform designed for 6-8 year olds Indonesian student. Has features of interactive story telling, PvP, puzzle, quiz, and classroom. Deployed on home server.

Debian Home Server

2025 – Present

Hobby Project

- Rebuilt and reconfigured an old unused PC for host sites, modded minecraft server, image storage, file storage, using Nginx as reverse proxy, each run automatically using systemd services and tunneled using Cloudflare Tunnel.

TECHNICAL SKILLS

Programming: Python, C, Java, JavaScript

Machine Learning & AI: Classical ML (Scikit-learn, TF-IDF), Deep Learning (PyTorch, Tensorflow), NLP (IndoBERT, Sentiment classification), Computer Vision (OpenCV, MediaPipe, Image segmentation)

Deployment & Infrastructure: Linux (Debian), Cloudflare Tunnel, Nginx, Streamlit, Hugging Face, Git, GitHub

Web: React.js, Next.js, Node.js