MOCH. AVIN

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ABOUT ME

Final-year Informatics student passionate about Artificial Intelligence and Machine Learning, with hands-on experience in computer vision projects, including image classification and embedded AI deployment. Experienced in building models using TensorFlow and applying AI to real-world use cases through experimentation, model evaluation, and system integration. Eager to explore innovative applications of AI across diverse domains.

Sepuluh Nopember Institute of Technology (ITS)　　　　　　　　　　　　　　　　Surabaya, Indonesia

Bachelor of Engineering　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2022 - Present

Major in Informatics

Cumulative GPA: 3.91/4.0

Relevant Coursework: Software Engineering, Algorithms, Machine Learning, Deep Learning

WORK EXPERIENCE

SPMB 2025 Jawa Timur – ITS　　　　　　　　　　　　　　　　　　　　　　　　Surabaya, Indonesia

Frontend Developer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan 2025 – Present

- Maintained and updated the Next.js front-end for the 2025 East Java Student Admission Portal (SPMB) as part of a 5-person Front-End team.
- Worked with the Back-End team to integrate new APIs and align features with the 2025 admission policies.
- Focused on ensuring stability and maintainability of the existing codebase while supporting feature adjustments for a platform serving 100k+ users.

Intern Front-End Developer – DPTSI ITS　　　　　　　　　　　　　　　　　　Surabaya, Indonesia

Frontend Developer Intern　　　　　　　　　　　　　　　　　　　　　　　　　　Mar 2024 – Present

- Designed and implemented responsive layouts using Chakra UI
- Contributed to the migration of ITS's academic system in the *Mata Kuliah Umum* module and was responsible for the frontend migration of the Student Organization Management Information System
- Collaborated with teams using Bitbucket and Jira to manage code repositories and track changes

DLU Web Application– PT. Dharma Lautan Utama　　　　　　　　　　　　　Surabaya, Indonesia

Frontend Developer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan – June 2025

- Digitized the company's manual record-keeping process by building a web-based logging system, eliminating paper forms and improving data accessibility
- Created responsive, component-based interfaces with Laravel Blade and integrated them with a PostgreSQL backend to ensure fast, reliable performance across devices.
- Worked in a 4-person agile squad (1 lead, 2 backend engineers, and myself as the sole frontend dev).

SIAR HALAL - ITS　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Surabaya, Indonesia

Frontend Developer　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2024

- Continued and optimized the existing codebase using Next.js 13 and Tailwind CSS.
- Integrated 8thWall, Three.js for AR/VR game features

ACTIVITIES

Teaching Assistant of Fundamental Programming - ITS　　　　　　　　　　Surabaya, Indonesia

Class Coordinator (Teaching Assistant)　　　　　　　　　　　　　　　　　　　Aug 2024 – Des 2024

- Coordinated and supervised other teaching assistants to ensure smooth execution of class activities and assignment reviews.
- Organized and led tutorial sessions, fostering a collaborative learning environment for students to master programming fundamentals.

NLC - SCHEMATICS ITS　　　　　　　　　　　　　　　　　　　　　　　　　　Surabaya, Indonesia

Expert Staff　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Mar 2024 – Des 2024

- Created and tested competition problems
- Collaborated with the team to ensure problem accuracy and quality

Algorithms and Programming Laboratory – ITS　　　　　　　　　　　　　　Surabaya, Indonesia

Administrator　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan 2024 – Present

- Coordinating algorithm and programming-related course materials
- Facilitating communication between instructors and students regarding course content and requirements

ACHIEVEMENTS

OMEDSCOPE - PKM   Feb – Oct 2024
Team Lead and ML Engineer
- Developed a Laravel-based web dashboard connected to Raspberry Pi and a classification model for eardrum (otitis media) using a limited dataset (200 images across 5 classes), achieving **85.42%** accuracy
- Coordinated and led the team
- Secured funding and qualified for **PIMNAS** (Pekan Ilmiah Mahasiswa Nasional) and won bronze in the poster category at PIMNAS

IDCamp 2024 Scholarship Awardee in Expert Android Developer Class   June 2025
IDCamp Dicoding

DBS Foundation Coding Camp 2024 Scholarship Awardee in Expert Front End Web Developer   Sep 2024
DBS Foundation

Expert Machine Learning Class – IDCamp (Dicoding)   February 2024
Scholarship Recipient
- Completed ML projects including regression, classification, NLP, and TensorFlow-based CNN training.
- Topics: Data preprocessing, hyperparameter tuning, model evaluation.

Finalist at Jogja Information Technology Session (Joints) Programming Contest 2023   Mei 2023
Universitas Gadjah Mada

Finalist at Arkavidia National Programming Contest Senior 2022   February 2022
Institut Teknologi Bandung

Finalist at Schematics National Programming Contest Senior 2022   October 2022
Institut Teknologi Sepuluh Nopember Surabaya

Finalist at National Science Competition 2021 for Mathematics   November 2021
Indonesia Ministry of Education

ADDITIONAL

Developer Skills: React.js, Nextjs, Tailwind CSS, git, mySQL, PostgreSQL, Firebase, laravel.
Machine Learning: TensorFlow, Gymnasium, NumPy, pandas, Matplotlib
Programming Languages: TypeScript, C, C++, Javascript, PHP, Python
Certifications & Training: Online Course in Frontend, Android, and Machine Learning (Dicoding Indonesia)

CONTACT

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