ZAKIA MAHBUB ABDULLAH

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Villa Pabuaran Indah, Aira 1 No. 12. Bogor, West Java, Indonesia

Programmer with many experiences in national or international competitions. I am an enthusiastic, self-motivated, hard-working, and adaptable person.

Work Experiences

Sinas Mas Land - BSD, Tangerang   **Nov 2023 - current**

AI ML Development & Testing

- Designed, developed, and optimized machine learning algorithms, focusing on natural language processing, computer vision, and recommendation systems.
- Execute thorough testing, including unit testing and performance testing, to ensure the accuracy, reliability, and scalability of AI/ML models.
- Deploy machine learning models into production environments, ensuring seamless integration with existing systems.
- Collaborate with cross-functional teams, communicate findings effectively, and continuously improve models for optimal performance and relevance.

Sinar Mas Land - BSD, Tangerang   Jul 2022 - Oct 2023

Transformation - Innovation Developer

- Partnered with other departments in creating web and apps innovation
- Build Web and Apps with internal tools Outsystems
- Provided design development of projects involving application development, migrations, and additions to existing applications
- Demonstrated advanced proficiency in seamlessly integrating cutting-edge technologies, including computer vision, machine learning, and IoT, into web and mobile applications.

PT. Zona Edukasi Nusantara - Graha Aktiva, Ground Floor   Feb 2022 - Jul 2022
Jalan HR Rasuna Said Kav. 03. East Kuningan, Setiabudi
South Jakarta 12950. Indonesia.

Data Analyst

- Responsible for compiling and maintaining a database
- Performed data mining and data cleansing for analysis
- Analyzed and interpret data for reports
- Explored new data sets and analyzed techniques
- Interpreted and visualized data into dashboards

Lembaga Ilmu Pengetahuan Indonesia (LIPI) - Sangkuriang   Feb 2021 - Apr 2021
Komplek LIPI Gedung 20, Dago, Bandung.

Programmer

- Developed Artificial Intelligence (AI) projects using object detection on Autonomous Vehicles with computer vision using the YOLO detection method.
- Developed object detection on autonomous vehicles for automated driving
- Developed object detection accuracy of up to 96.7%

PT. Multi Fabrindo (Medco Group) - Jl. Ampera Raya, Cilandak,   Dec 2019 - Feb 2020
Jakarta Selatan, Jakarta

IT Engineer

- Developed the air quality system project for employee safety with an accurate rate of 70%
- Developed air quality system monitoring with the Internet of Things (IoT) using Node-Red
- Developed air quality system monitoring using LabView

Education Level

Telkom University - Jl. Telekomunikasi No. 1, Terusan Buahbatu - Bojongsoang,   Aug 2021 - Aug 2023
Sukapura, Dayeuhkolot, Bandung, West Java

Bachelor Degree in Computer Engineering, 3.86/4.00

- Appointed the participant of the Cross Culture Program by Telkom University, Universiti Teknologi Petronas, 2021. Impacting 20+ Indonesia and Malaysia students.
- Appointed the participant of Virtual Short Course in Future Technology by Telkom University, Universiti Kuala Lumpur, Mapua University, the courses are Artificial Intelligence (AI), Image Processing, Robotic. Impacting 50+ Indonesia, Malaysia, Philippines students.

Gadjah Mada University - Bulaksumur, Caturtunggal, Depok, Sleman, Yogyakarta   Aug 2018 - Aug 2021
Associate Degree in Instrumentation Technology, 3.75/4.00

- Appointed the participant of Digital Image Processing, Virtual Exchange Program, Certified by Asia University. Impacting 20+ Taiwan students.
- Appointed the participant of Artificial Intelligence (AI), Summer Course Program, Certified by Asia University. Impacting 20+ Taiwan students.
- Appointed the participant of FinTech, Summer Course Program, Certified by Asia University, Impacting 20+ Taiwan students.
- Appointed the participant of Sakura Science Student Exchange Scholarship, Kitakyushu, Japan. Impacting 30+ Singapore, Korea, Japan, Hongkong, Indonesia students.

Organisational Experience

Gadjah Mada Robotic Team (GMRT) - Yogyakarta, Indonesia   Jan 2020 - Feb 2021
Programmer in KRTMI Division

- Built robot control, programmed the robot, and troubleshot robot control.
- Planned and created the program using C/C++, Python languages, and Matlab for controlling

Sahabat Beasiswa - Jakarta, Indonesia   Jan 2019 - Dec 2019
Secretary

- Talk show moderator
- Organized schedule for talk shows or other events
- Organized activity proposal files, permits, invitations
- Organized organizational structure
- Supervised other division

Penalaran Center Community (PCC) - Yogyakarta, Indonesia   Sep 2018 - Dec 2020
Head of Mahasiswa Berprestasi (MAPRES) Department

- Organized training and supervised students to advance in the MAPRES Academy.

International Association of Students in Agricultural and Related Sciences (IAAS) - Yogyakarta, Indonesia   Sep 2018 - Dec 2019
Science and Technology Development Staff

- Planned and analyzed agricultural problems using technology

Skills, Achievements & Other Experience

- **Projects** (2021): Lembaga Ilmu Pengetahuan Indonesia, Research by developing an Autonomous Vehicle with object detection system as an object detector.
- **Projects** (2020): PKM Karsa Cipta by Ministry of Education, Created an earthquake detection project used to automate houses in earthquake prone areas and create earthquake warning monitoring.
- **Projects** (2020): International Hackathon for Training Next Generation Engineers, Kitakyushu, Japan. Improve line follower robot project for gate tour using Mbot from Makeblock.
- **Achievements** (2020): Awardee of Kontes Robot Indonesia (KRI) KRTMI, 2020
- **Achievements** (2019): Bronze of International Festival Innovation on Green Technology (I-FINOG) at Pahang University, Malaysia
- **Achievements** (2018): Semifinalists of National Software Development Competition Luxtrum XI DTETI Gadjah Mada University
- **Achievements** (2017): 2nd Runner Up in the Creative Robot Category, Robotic Day
- **Achievements** (2016): 2nd Runner Up in the Creative Robot category, International Robotic Games