

AI/ML enthusiast and skilled programmer with proven experience in machine learning, computer vision, and innovative technology solutions. Adept at working in diverse environments, from startups to established organizations, with a focus on delivering impactful results in AI-driven applications.

WORK EXPERIENCE

Analytics, AI & ML Staff

May 2024 - Present

Full Time

Sinar Mas Land, BSD, Tangerang

- Automated Road Damage Detection System – Developed a computer vision solution to detect and classify road damage (e.g., potholes) in real time, integrated with automated repair ticket generation. Successfully deployed in BSD Link (BSD area), enhancing urban infrastructure maintenance efficiency and response time.
- Developed classification systems for BigTrons material nomenclature.
- Developed OCR solutions for real-time data extraction, including reports for KTP/NPWP, finance documents, customer surveys, and more.
- Created error tracking systems for OCR issues related to KTP and NPWP.
- Led the development of automation AI models, including a media mass crawler and segmentation classification projects for various organizations.

AI ML Development & Testing Intern

Nov 2023 - April 2024

Sinar Mas Land, BSD, Tangerang

- Designed, developed, and optimized machine learning algorithms, focusing on natural language processing, computer vision, and recommendation systems.
- Conducted thorough unit testing and performance testing to ensure accuracy, reliability, and scalability of AI/ML models.
- Deployed models into production environments and integrated them seamlessly with existing systems.
- Collaborated with cross-functional teams, effectively communicating findings to optimize model performance.

Transformation - Innovation Developer Intern

Jul 2022 - Oct 2023

Sinar Mas Land, BSD, Tangerang

- Collaborated with other departments to create innovative web and app solutions.
- Built web and mobile applications using internal tools like Outsystems.
- Led the design and development of applications, focusing on migration and enhancement of existing systems.
- Integrated cutting-edge technologies, including computer vision, machine learning, and IoT, into web and mobile applications.

Data Analyst Intern

Feb 2022 - Jul 2022

PT. Zona Edukasi Nusantara, Jakarta

- Compiled and maintained databases, performed data mining and cleansing for analysis.
- Analyzed and interpreted data for reports and visualized results in interactive dashboards.

Programmer Intern

Feb 2021 - Apr 2021

LIPI, Bandung

- Developed object detection systems for autonomous vehicles using YOLO and computer vision techniques.

IT Engineer Intern

Dec 2019 - Feb 2020

PT. Multi Fabrindo (Medco Group), Jakarta

- Developed air quality monitoring systems for employee safety using IoT and LabView.
- Integrated real-time monitoring with IoT technologies and achieved a 70% accuracy rate.

EDUCATION

Bachelor Degree in Computer Engineering, 3.86/4.00

Aug 2021 - Sept 2023

Telkom University, Bandung, Indonesia

- Participant, Cross Culture Program with Universiti Teknologi Petronas, impacting 20+ students from Indonesia and Malaysia.
- Virtual Short Course in Future Technology (AI, Image Processing, Robotics) by Telkom University and partner institutions.

Associate Degree in Instrumentation Technology, 3.75/4.00

Aug 2018 - Aug 2021

Gadjah Mada University, Yogyakarta, Indonesia

- Participant, Digital Image Processing, AI, and FinTech programs, certified by Asia University.
- Sakura Science Student Exchange Scholarship recipient, visiting Japan and collaborating with students from Singapore, Korea, Japan, Hong Kong, and Indonesia.

ORGANIZATIONAL EXPERIENCE

Programmer, KRTMI Division

Jan 2020 - Feb 2021

Gadjah Mada Robotic Team (GMRT), Yogyakarta

Built and programmed robots for competitions, working with C/C++, Python, and Matlab for control systems.

Secretary
Sahabat Beasiswa, Jakarta

Jan 2019 - Dec 2019

Moderated talk shows, organized event schedules, and managed proposals, permits, and invitations.

Head of Mahasiswa Berprestasi (MAPRES) Department
Penalaran Center Community (PCC), Yogyakarta

Sep 2018 - Dec 2020

Organized training programs and supervised students in the MAPRES Academy.

Science and Technology Development Staff
International Association of Students in Agricultural and Related Sciences (IAAS), Yogyakarta

Sep 2018 - Dec 2019

Analyzed agricultural problems using technology and planned development initiatives.

SKILLS

- **Machine Learning:** Azure AI Services, scikit-learn, Custom Vision
- **Web Development:** HTML, CSS, JavaScript
- **Data Analysis:** Data mining, cleansing, visualization
- **Programming Languages:** Python, C/C++, Matlab

ACHIEVEMENTS & PROJECTS

Projects :

- Developed an **Autonomous Vehicle** with object detection (2021)
- Created an **earthquake detection project** for automated houses in earthquake-prone areas (2020)
- Improved a **line follower robot** project for gate tours during an international hackathon (2020)

Awards :

- Awardee of **Kontes Robot Indonesia (KRI)**, KRTMI (2020)
- Bronze Medal at the **International Festival Innovation on Green Technology (I-FINOG)** at Pahang University, Malaysia (2019)
- Semifinalist at the **National Software Development Competition Luxtrum XI** (2018)
- 2nd Runner Up in the **Creative Robot Category**, Robotic Day (2017)
- 2nd Runner Up in the **Creative Robot Category**, International Robotic Game (2016)