Muh. Irfan Ali

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Engineer Portofolio: https://bit.ly/PortfolioIrfanAli | Microsite: https://s.id/muhirfanali77

A graduate of Informatics Engineering from Politeknik Negeri Malang with expertise in machine learning, data science, fullstack web development, and network administration. Proficient in Python, SQL, and Git, with experience in ML modeling, data analysis, database management, and cloud computing. Skilled in building scalable web applications using Laravel and JavaScript, as well as network configuration and security. Adaptable, analytical, and problem-solving oriented, with strong collaboration and communication skills. Earned a 3.79 GPA with Cum Laude honors, gaining hands-on experience through full-time roles and internships.

WORK EXPERIENCES:

Information Technology Staff RTIK Kota Blitar

Dinas Komunikasi dan Informatika – Kota Blitar   Mar 2019 - Present

- Represented RTIK Kota Blitar and Diskominfotik Kota Blitar at national events in Bali (2020), Sidoarjo (2021), Surabaya (2022), and Semarang (2023), which included strategic meetings for representatives from RTIK and Diskominfotik across Indonesia.
- Led digital literacy workshops in Blitar, training UMKM on digital marketing, e-commerce, and cybersecurity.
- Progressed from support roles to leadership, driving impactful programs and strengthening community partnerships.

Full Stack Developer Intern   Aug 2023 – Jan 2024

PT Industri Kereta Api (Persero) – Madiun

- Developed an Employee Performance Assessment System, reducing evaluation time by 90% and enabling data-driven salary adjustments.
- Built an LMS for standardized employee training and compliance across the organization. I also designed the BOD BOC INKA Group System interface, enhancing executives' access to data.
- Utilized PHP, Laravel, and JavaScript to create scalable, efficient web applications following Agile practices.

Machine Learning Developer/Data Scientist Intern   Feb 2023 – Jul 2023

Bangkit Academy 2023 by Google, GoTo, Traveloka – Jakarta

- Gained hands-on experience in data extraction, preprocessing, visualization, and clustering for machine learning workflows.
- Developed a rating system (0-5 stars) and personalized tourism recommendations by processing thousands of data points across Indonesia.
- Collaborated with a multidisciplinary team to integrate ML models as backend services for mobile and cloud applications.

Network Administrator   Feb 2019 – Jul 2019

PT Data Buana Nusantara – Blitar

- Managed network installations and infrastructure across Tulungagung, Kediri, Blitar, and Jombang, ensuring seamless connectivity for homes, offices, and schools.
- Designed and implemented network architectures, including routers, switches, and LAN setups, while providing technical support and troubleshooting for clients.

- Oversaw transmitter tower installations, boosting connectivity in underserved areas and contributing to a 5–10% monthly revenue increase with hundreds of Wi-Fi setups.

EDUCATION:

D-IV Informatics Engineering, Politeknik Negeri Malang Sep 2020 – Feb 2025

- Information Technology Department, GPA 3.79/4.00
- Relevant Courseworks: Dasar Pemrograman, Aplikasi Komputer Perkantoran, Matematika Diskrit, Konsep Teknologi Informasi, Teknik Dokumentasi, Keselamatan dan Kesehatan Kerja, Ilmu Komunikasi dan Organisasi, Rekayasa Perangkat Lunak, Algoritma dan Sruktur Data, Sistem Operasi, Aljabar Linier, Basis Data, Analisis dan Desain Berorentasi Objek, Desain Antarmuka, Desain dan Pemrograman Web, Basis Data Lanjut, Kecerdasan Buatan, Pemrograman Berbasis Objek, Sistem Manajemen Kualitas, Statistik Komputasi, Business Intelligence, Pemrograman Web Lanjut, Manajemen Proyek, Critical Thinking dan Problem Solving, Jaringan Komputer, Komputasi Awan, Sistem Informasi Manajemen, Pembelajaran Mesin, Pemrograman Mobile, Pengujian Perangkat Lunak, Pemrograman Berbasis Framework, Emerging Technology, Rekayasa Sistem, dan Proyek Kolaboratif.
- **Achievements:**

  Certificate of Competence for Teknisi Utama Jaringan Komputer from Badan Nasional Sertifikasi Profesi (2021)

  Certificate of Competence for Junior Web Developer from Badan Nasional Sertifikasi Profesi (2021)

  Certificate of Competence for Network Administrator from Badan Nasional Sertifikasi Profesi (2021)

  National Seminar Committee 2021 Cyber Security Strategy and Ethical Hacking to Ensure The Security of Information Systems Politeknik Negeri Malang (2021)

  Expert Facilitator for the National Digital Literacy Of Kementerian Komunikasi dan Informatika (Kominfo) of the Republic Indonesia Which Was Held In 34 Provinces And 514 Districts/Cities for Okt and Nov (2021)

  Soft Skills Training Interpersonal Skills And English Skills After Training from Digital Talent Scholarship Kementerian Komunikasi dan Informatika (2021)

ORGANIZATION EXPERIENCE:

President Feb 2022 – Dec 2022

Informatics Technology Department English Community – Politeknik Negeri Malang
- Led a team of 20+ members, organizing 15+ events that connected IT and English language students.
- Represented ITDEC in storytelling and oratory competitions, enhancing public speaking and leadership skills.
- Conducted workshops integrating English proficiency with technology, improving members' communication and technical abilities.

Expert Staff Of Student Welfare Division Dec 2021 – Okt 2022

Forum Mahasiswa Bidikmisi, ADik Afirmasi, dan KIP Kuliah – Politeknik Negeri Malang
- Resolved welfare issues for 500+ scholarship recipients, with a 90% success rate.
- Organized 10+ programs annually, benefiting 300+ participants and supporting 100+ underprivileged individuals.
- Represented 500+ students in leadership meetings, ensuring concerns were addressed and satisfaction maintained.

Member of the Web Programming Division Jul 2021 – Sep 2022

Workshop and Research Informatics – Politeknik Negeri Malang
- Focused on web development, enhancing technical skills and knowledge.
- Provided training and mentorship to junior students, helping them improve their web programming skills.

- Contributed to collaborative web projects, supporting research and workshops to boost community technical capabilities.

COMMITTEE/OTHER EXPERIENCES:

Building FIT (Find Indonesia Tourism) a mobile application with tourism recommendations in Indonesia at Bangkit Academy 2023

Public Speaker/Expert Facilitator for Digital Literacy RTIK Blitar Talk 2023

Public Speaker/Expert Facilitator for ICT training in 3 sub-districts of Blitar City with Diskominfotik of Blitar 2023

Building a prediction application for shallot prices in Nganjuk 2023

Collaborated with the Diskominfotik of Surabaya to conduct data collection and visualization of stunting cases 2023

Building a SITAHIR (Sistem Informasi Tagihan Air) application for Sumberarum, Kec. Wates, Kabupaten Blitar 2022

Building a Point of Sales application for Toserba web-based with Laravel 2022

Moderator Pekan Prestasi Mahasiswa Bidikmisi/KIP Kuliah dan Afirmasi Pendidikan of Politeknik Negeri Malang 2021

Speaker/Tutor IT Training of Dinas Komunikasi, Informatika, dan Statistik Kota Blitar 2020

Moderator Webinar of Pembekalan Computational Thinking Politeknik Negeri Malang 2020

Best Participant of Bincang Santai in the theme of "Psikolgi di UGM dan Konsistensi Belajar" by PELITA Indonesia 2020

OTHER

Skills: Web Development (Laravel, HTTP, PHP, CSS, JS Language, etc.), Machine Learning Developer (NLP, AI, Deep Learning, Python Programming, etc.), Data Scientist and Data Analyst, Network Design and Installation, Application Software and Web Testing, IT Technical Support System, Database Administrator (SQL Language and Management Data), Quality Assurance Technology, Python Development Program, SDLC (Software Development Life Cycle), Business Intelligence Systems (Power BI and Tableau), Expert Github/Gitlab Workflow, Agile Methodologies for Development System, Microsoft Office (Excel, Word, PowerPoint, OneDrive, Visio)

Language Proficiency: Indonesia – Native, English – Fluent

Course/Training:

- Coursera (2023): Crash Course on Python, Introduction to Git and GitHub, Troubleshooting and Debugging Techniques, Using Python to Interact with the Operating System, Analyze Data to Answer Questions, Ask Questions to Make Data-Driven Decisions, Foundations: (Data, Data, Everywhere), Prepare Data for Exploration, Process Data from Dirty to Clean, Share Data Through the Art of Visualization, Mathematics for Machine Learning: Linear Algebra, Mathematics for Machine Learning: Multivariate Calculus, etc. (Verify more at: https://s.id/CourseraIrfan)
- Dicoding (2023): Belajar Analisis Data dengan Python, Belajar Machine Learning untuk Pemula, Belajar Analisis Data dengan Python, Memulai Pemrograman dengan Python, Belajar Dasar Structured Query Language (SQL), Belajar Dasar Data Science, Belajar Analisis Data dengan Python, Belajar Machine Learning untuk Pemula, Belajar Analisis Data dengan Python, Memulai Pemrograman dengan Python, Belajar Pengembangan Machine Learning, Belajar Dasar Visualisasi Data, Belajar Dasar-Dasar DevOps, Simulasi Ujian TensorFlow Developer Certificate, Belajar Dasar Git dengan GitHub, Memulai Dasar Pemrograman untuk Menjadi Pengembang Software, Cloud Practitioner Essentials (Belajar Dasar AWS Cloud), Belajar Jaringan Komputer untuk Pemula, Belajar Dasar Pemrograman JavaScript, Belajar Back-End Pemula dengan JavaScript, Pengenalan ke Logika Pemrograman (Programming Logic 101).
- Bisa AI (2023): Course Basic Excel
- BPPTIK Kominfo (2021): Teknisi Utama Jaringan Komputer
- DTS Kominfo (2021): Junior Network Administrator and Junior Web Developer.