

FABIAN NABIL

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PROFILE SUMMARY

Undergraduate Information Technology student at the Faculty of Computer Science, Universitas Jember with expected graduation in **2026**. Certified **Junior Mobile Developer (BNSP)** and published **IEEE author** with proven expertise in applied **Artificial Intelligence (AI)**, **Computer Vision (YOLO)**, and **Internet of Things (IoT)** integrated into software systems. Employs a research-driven engineering methodology grounded in rigorous scientific literature review to deliver validated, reliable, and high-performance solutions. Experienced Teaching Assistant and Research Assistant at the Smart Agriculture Laboratory.

EDUCATION

Universitas Jember (University of Jember) <i>Bachelor of Information Technology, Faculty of Computer Science</i>	Jember, East Java, Indonesia <i>2023 – 2026 (Expected)</i>
- Academic focus in Artificial Intelligence, Embedded Systems, Computer Networks, and Software Engineering. - Recipient of the Scientific of the Year 2024 award from the Faculty of Computer Science for outstanding research publications.	

SCIENTIFIC PUBLICATIONS

Yolov10-Based Student Activity Identification as Personalization of Appropriate Learning Methods <i>Published in IEEE Xplore • 2024 Beyond Technology Summit on Informatics (BTS-I2C)</i>	2024
Authors: Fabian Nabil, Tiara Salsabella Ayuningtyas, Januar Adi Putra DOI: 10.1109/BTS-I2C63390.2024.10942238	
- Engineered a real-time computer vision system leveraging state-of-the-art YOLOv10 object detection to identify and classify student learning behaviors and engagement in classroom environments. - Correlated attention metrics to construct automated recommendations for personalized, adaptive pedagogical methods. - Selected as an International Conference Speaker, presenting research methodologies and empirical findings to an international academic audience.	

HONORS & AWARDS

- National Finalist – GEMASTIK 2025**, Smart Devices, Embedded Systems, and IoT Division, Ministry of Higher Education, Science, and Technology RI.
- National Finalist – Compfest 17 CTF** (Focus: Web Exploitation & Digital Forensics), Faculty of Computer Science, Universitas Indonesia **2025**
- National Finalist – The Ace CTF** (Focus: Web Exploitation & Digital Forensics), HMTK Universitas Diponegoro **2025**
- Scientific of the Year 2024** (Best Student Researcher Award), Faculty of Computer Science, Universitas Jember.
- National Finalist – GEMASTIK 2024**, User Experience (UX) Design Division, BPTI / Puspresnas Kemendikbudristek RI.
- Best Paper Award – EDUCATIV 2024**, UKM Pelita Universitas Jember.
- 3rd Place – EDUCATIV 2024 Scientific Essay Competition**, UKM Pelita Universitas Jember.
- 3rd Place – ICT Scientific Paper Competition 2024**, Faculty of Computer Science, Universitas Jember.
- National Finalist – LKTI Safety Competition 2024**, Politeknik Perkapalan Negeri Surabaya (PPNS).

PROFESSIONAL CERTIFICATIONS

Junior Mobile Developer (BNSP Certified) – National Professional Certification Agency & Komdigi	2025
International Artificial Intelligence Business (AIBIZ) – CertNexus	2025
International Data Science for Business (DSBIZ) – CertNexus	2025
Master Class on Job Training Data Science – Bisa AI Academy	2025
Design Thinking & Mindset Digital Developer – Ministry of Communication and Digital (Komdigi)	2025
Amateur Radio Operator License (IAR) – Ministry of Communication and Digital (Komdigi)	2025

WORK & ORGANIZATIONAL EXPERIENCE

Laboratorium Pertanian Cerdas (Smart Agriculture Lab) <i>Teaching Assistant & Research Assistant, FASILKOM Universitas Jember</i>	Jember, East Java, Indonesia <i>2024 – Present</i>
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- Instructed and mentored undergraduate students in intelligent instrumentation, sensor calibration, and microcontroller programming.
- Developed a real-time IoT telemetry monitoring platform (iot.pertaniancerdas.my.id) for soil moisture and microclimate analysis.

Digital Nano Solusindo

Jember, East Java, Indonesia

Volunteer Education Technology

May 2025

- Facilitated community service and educational technology dissemination to enhance digital literacy among primary school students.

Sasana Muda Indonesia

Bondowoso, East Java, Indonesia

Coordinator of Media Information, Digital Communication & Education

Apr 2024 – Apr 2025

- Led public digital communication strategies, branding campaigns, and managed technical recording operations for youth educational podcasts.

Nabil's Computer

Bondowoso, East Java, Indonesia

Owner & Hardware/Software Technician

Jul 2020 – Present

- Provided computer hardware diagnostics, component repairs, OS installations, and network maintenance for individual clients and local MSMEs.
- Service documentation: Instagram Highlights: Nabil's Computer Documentation.

PROJECTS & APPLIED SYSTEMS

- **Retail Object Detection Dataset Development (Faculty Research Project)** **2024 – 2025**
Collaborated in a faculty-led research project developing an enterprise-grade computer vision dataset for retail environments, curating over **300,000+ annotated images** across **6 distinct product classes**. Spearheaded data curation, automated bounding-box labeling, quality verification, and class-balancing pipelines for YOLO-based retail shelf monitoring and checkout models.
- **KAUJE FEST 2026 Portal** (kauje-fest.vercel.app) **2026**
Official web portal for Universitas Jember Alumni National Event (Jalan Gembira Nasional 3 & KAUJE RUN 5K/10K). Engineered real-time participant verification querying registration records instantly, deployed on Vercel Edge Network for low-latency performance.
- **IoT Smart Agriculture Platform** (iot.pertaniancerdas.my.id) **2024 – 2025**
Real-time telemetry dashboard for multi-sensor environmental monitoring (soil moisture, temperature, microclimate) and automated actuator/irrigation logic using ESP32 microcontrollers and MQTT protocol.
- **JDIH Desa Sidomukti Mayang** (jdih.sidomuktimayang.id) **2024**
Web-based Legal Documentation and Information Network system providing transparent public access, indexing, and digital archival of village government legal products and regulations.

TECHNICAL SKILLS

Programming Languages:	Python, C++, Java, JavaScript, PHP, SQL, HTML5, CSS3
AI & Computer Vision:	Computer Vision, YOLO Architectures (YOLOv8, YOLOv10), Deep Learning, OpenCV, PyTorch, Scikit-Learn
Mobile & Embedded IoT:	Native Android Development (BNSP Certified), Arduino, ESP32, Sensor Telemetry, MQTT
Cybersecurity & CTF:	CTF Competitions (Focus: Web Exploitation, Digital Forensics), Cryptography, Network Analysis
Design & Methodologies:	Design Thinking, Human-Centered UX Design (GEMASTIK Finalist), Wireframing, Agile Workflow
Tools & Platforms:	Git, GitHub, Linux, VS Code, Vercel, MySQL, Docker, Postman