ABDILLAH ABHIPRAYA ABRAR

INFORMATICS ENGINEERING STUDENT | SOFTWARE DEVELOPMENT | MULTIMEDIA

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Portfolio | GitHub | LinkedIn

PROFESSIONAL SUMMARY

Informatics Engineering undergraduate at UPN "Veteran" Yogyakarta with project experience in web application development, backend/API integration, application security, and geospatial data processing. Built academic and personal projects using Python, React, FastAPI, Node.js, and PostgreSQL. Also experienced in technical documentation, team coordination, and multimedia production.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, Java, PHP
Web & Frontend: HTML5, CSS3, React, Vite, Tailwind CSS, Bootstrap, Framer Motion
Backend & Data: FastAPI, Node.js, Express, REST APIs, Socket.IO/WebSockets, PostgreSQL, JSON persistence
Security & Testing: QR authentication, ECDSA P-256, ASN.1 DER, Pytest, Android unit testing, Playwright, Git, GitHub, CI workflows
Multimedia & Design: Figma, graphic design, video editing, motion graphics, Blender 3D, Adobe Photoshop, After Effects, SketchUp, Unity 3D

SELECTED PROJECTS

IPGuard — Secure Digital Asset Protection Platform — 2026–Present

React 19 | FastAPI | PostgreSQL | Android | ECDSA P-256

- Developed full-stack components connecting a React interface with FastAPI services and PostgreSQL persistence for a digital asset vault.
- Integrated Android QR sign-in with origin/payload validation, challenge expiry, and ECDSA P-256 signature verification; integration was tested with 65 backend tests and 37 Android unit tests.

MLBB Draft Studio — Real-Time Draft & OBS Overlay System — 2026–Present

React | Node.js | Express | Socket.IO | OBS Studio

- Built a Mobile Legends draft-pick and scoreboard tool with an operator panel and browser-source overlays for OBS Studio.
- Implemented server-authoritative state synchronization and JSON persistence; validated a 133-hero data pipeline and prototyped OCR/image-recognition processing.

LahanAman — Landslide Susceptibility WebGIS — 2026

Geospatial Processing | Vector QA | EPSG:32749 / EPSG:4326 | Weighted Scoring

- Audited and processed six geospatial vector layers containing 963 features, then reproduced a 917-feature landslide-susceptibility output using weighted scoring.

Local Government Budgeting System — Smart Validation — 2026

Requirements Engineering | Rule-Based Validation | SRS | Figma

- Documented requirements, user roles, and budgeting workflows for a rule-based validation approach; prepared software specifications aligned with ISO/IEC/IEEE 29148 and Figma prototypes.

Personal Developer Portfolio — 2025–Present

HTML | CSS | JavaScript | GitHub | Cloudflare Pages

- Designed and deployed a personal website to present software projects, technical interests, and multimedia work; maintain the source through GitHub.

RESEARCH & ACADEMIC EXPERIENCE

Research Assistant — Financial Management Application Research — May 2026–Present

UPN "Veteran" Yogyakarta

- Support requirements analysis and software-architecture evaluation; translate functional needs into Figma wireframes and user flows.

LEADERSHIP & CREATIVE EXPERIENCE

Deputy Head — Media & Information Department, BKMK — Sep 2025–Sep 2026

- Coordinate digital publications, editorial planning, and multimedia deliverables across social media and the organization website.

PDD Coordinator — Kebumen Campus Festival 2026 — Oct 2025–Jan 2026

- Led a nine-member creative and documentation team covering photography, videography, graphic design, and copywriting.

EDUCATION, AWARD & LANGUAGES

Undergraduate Program in Informatics Engineering (in progress) | UPN "Veteran" Yogyakarta | 2024–Present
Finalist & Best Video Award — Find IT! UGM 2026 | May 2026
Languages: Indonesian (Native), English