Raufi Musaddiq

Backend Engineer - Security & User Management

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PROFILE

Backend engineer with production experience across Security and User Management at DANA, including identity and verification, authentication and account lifecycle, risk controls, and recurring payments. Earlier work spans backend services, IoT platforms, and mobile development. Focused on explicit failure behavior, controlled rollout, operational recovery, and maintainable distributed systems.

WORKING SET

LANGUAGES & FRAMEWORKS Java 8/21, JavaScript, SQL, Spring Boot, Spring MVC, Spring Data, SOFABoot, Node.js, Maven	**DATA & MESSAGING** MySQL, OceanBase, MongoDB, distributed caching, sharded tables, Kafka
ARCHITECTURE Microservices, event-driven systems, RPC, message queues, REST APIs	**SECURITY & USER MANAGEMENT** Biometric/liveness verification, OTP, KBA, passkeys, device signals, JWT, key management
PLATFORM CDN edge computing, feature flags, gradual rollout, object storage, Grafana	**TESTING** Integration testing, TestNG, Mockito

EXPERIENCE

Software Development Engineer, Backend

DANA Indonesia · Jul 2023 - Present | Associate Software Development Engineer, Backend · Mar 2022 - Jun 2023

- Work across Security and User Management, covering identity and verification, authentication and account lifecycle, risk controls, and recurring payment systems.
- Built and operated user verification paths spanning biometric/liveness checks, one-time passwords, knowledge-based authentication, passkeys, and account verification integrations.
- Designed and rolled out authentication controls for abuse-sensitive account flows, including key management and staged rollout, while integrating risk signals into account decisions.
- Owned account lifecycle capabilities including dormancy handling, reactivation with risk assessment and verification, and self-service deletion behind step-up verification.
- Maintained login and registration paths with device/risk gating, and delivered distributed controls to limit abusive one-time-password delivery.
- Built recurring payment execution across multiple billing intervals with first-payment handling, timeout behavior, and bounded retry strategies.

Software Development Engineer

Beehive Drones · Nov 2019 - Mar 2022 | Management Trainee · Apr 2019 - Oct 2019

- Designed schemas, backend services, and APIs for products spanning drone operations, agriculture IoT, industrial control, and telemetry-driven systems.
- Built an agriculture IoT platform ingesting field sensor telemetry and a drone delivery management system covering dispatch, tracking, and operational reporting.

Android Developer

Majapahitech · May 2018 - Feb 2019

- Built an Android health application that synchronized wearable fitness telemetry to a cloud backend and presented activity history and health metrics.

EDUCATION & AWARDS

Bachelor of Information Technology - Universitas Gadjah Mada, 2022

1st place - Arkavidia Hackathon / Hackathon 3.0 Firetech / Apps Innovation C-Compiler, 2018

Also 2018: 3rd place, Apps Innovation Joints · Finalist, Transhub Challenge (Ministry of Transportation of Indonesia)

LANGUAGES

Bahasa Indonesia (native) · **English** (professional working proficiency)

Public resume - capability-level summary. Internal architecture, vendors, metrics, thresholds, and proprietary logic omitted.