

# Nidal Bakir *Software Engineer / Flutter Developer*

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## Profile

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Software Engineer with 4+ years of experience in mobile app development using Flutter and native Android. Skilled in scalable architecture, clean code practices. Proven track record of delivering high-quality, performant apps for diverse industries.

## Professional History

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**QIT, Software Engineer / Flutter Developer** [📄](#) 04/2023 – present

Developed hybrid mobile applications for Android and IOS platforms, ensuring optimal performance and user experience.

- Crafted architectures, standards, and app skeletons for building applications with comprehensive guidelines and docs.
- Designed, implemented, and tested Flutter and Dart projects utilizing clean code architecture for IOS and Android.
- Collaborated on stages of the systems development lifecycle from requirement gathering to production releases.
- Created detailed software documentation that reduced onboarding time for new developers by 20%.
- Supported other team members' initiatives by developing solutions to common problems and sharing those solutions.

**Doors Tech. Company, Lead Software Engineer / Flutter Developer** 01/2021 – 03/2023

Developed and maintained mobile applications across multiple platforms, including Android and iOS.

- Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Directed project staff and contractors in the implementation of negotiated approaches to systems development on major IT projects.
- Reviewed project specifications and designed technology solutions that met or exceeded performance expectations.

## Recent Projects

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### IbtiPark, QIT

- Developed a hybrid parking app with QR code scanning and Sunmi printer integration.
- Trained a YOLO model using OpenCV; deployed it via FastAPI with ONNX Runtime inside Docker containers.
- Improved parking automation and streamlined backend deployment.

**Tech:** Flutter, Dart, Python, YOLO, OpenCV, FastAPI, onnxruntime, Docker

### Ishtar, QIT

- Developed the core architecture for a scalable B2C e-commerce app.
- Integrated with custom backend APIs for catalog, cart, and checkout features.

**Tech:** Flutter, Dart, REST APIs

### PAWS, QIT

- Enhanced app features and redesigned UI elements based on client feedback.
- Improved app stability, UX, and API communication reliability.

**Tech:** Flutter, Dart, REST APIs

### F.E.T Academy, QIT

- Led development of the FET Academy suite (LMS, Exams, Student apps).
- Owned full Flutter lifecycle: architecture, coding, unit testing, QA interfacing, production delivery.

**Tech:** Flutter, Dart, REST APIs, Bitbucket Pipelines

### BRK, QIT

- Maintained app compatibility with the latest Flutter versions and secured dependencies.
- Ensured stability with up-to-date third-party integrations and API handling.

**Tech:** Flutter, Dart, REST APIs

### LIBLAB, QIT

- Refactored and optimized the app's codebase for better performance and maintenance.
- Improved API communication handling and added documentation for future scaling.

**Tech:** Flutter, Dart, REST APIs, SQLite

## Skills

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**Mobile Development:** Flutter, Dart, Java | **Backend Development:** Go, Firebase, Parse-platform, Supabase | **DevOps:** Docker, GitHub Actions, GitLab Pipelines, Bitbucket Pipelines | **Databases:** PostgreSQL, SQLite, Redis | **Tools:** Google Maps, Huawei Maps, Stripe, PayPal | **Testing:** Unit Testing, Widget Testing, Integration Testing | **Other:** Linux (Daily Driver)

# Nidal Bakir *Backend Engineer*

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## Profile

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Backend Engineer specializing in Go, PostgreSQL, Redis, and Docker, with hands-on experience building APIs, integrating databases, and deploying containerized services. Builds on 4 years of experience developing Flutter and Android apps, giving strong insight into how backend design impacts client performance and user experience.

## Professional History

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**Software Engineer, QIT** [🔗](#) 04/2023 – Present

- Developed mobile applications and supported backend services and integrations for internal projects.
- Assisted in developing backend services for automation, notifications, and server-to-server integrations.
- Created software documentation that reduced onboarding time for new developers by 20%.
- Supported team members by developing reusable solutions and sharing knowledge.

**Tech:** Go, Python, PostgreSQL, Redis, Docker, Bash, FastAPI, YOLO, OpenCV, ONNX Runtime, FCM, Flutter/Dart

## Recent Professional Projects

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### IbtPark – AI Integration & Hybrid Parking App | QIT

- Built and deployed a YOLO model using OpenCV and ONNX Runtime, integrated with backend services via FastAPI and Docker for server-to-server communication.
- Developed the hybrid mobile app with QR code scanning and Sunmi printer support to interface with the AI system.
- Streamlined parking automation by handling model inference and deployment efficiently.

**Tech:** Python, FastAPI, Docker, Bash, YOLO, OpenCV, ONNX Runtime, Flutter/Dart

### Notify Service – Event-Driven Notification Backend | QIT

- Developed an event-driven backend service to send push notifications via FCM and other providers.
- Handled background tasks and parallel processing to reduce load on main business logic.
- Supported flexible deployment via Docker or a Bash install/startup script with systemd for persistent execution.
- Integrated seamlessly across multiple internal applications as a centralized notification system.

**Tech:** Go, PostgreSQL, Redis, Docker, Bash, Firebase/FCM

## Personal Projects

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### Go Light Framework – Full-Featured Go Backend Framework, *Tech: Go, PostgreSQL, Redis, Docker Compose, Goose, SQLC, JWT* [🔗](#)

- Built a framework-like backend in Go for managing tasks, with Dockerized development using Docker Compose.
- Implemented database migrations with goose and type-safe queries with sqlc.
- Integrated Redis for caching, advanced rate limiting (fixed window, sliding window, token bucket)
- Developed a sophisticated authentication system supporting guest login, password, and OAuth flows, including JWT, CSRF protection, and CORS handling.

### App Icon Generator – Cross-Platform CLI Tool, *Tech: Go, urfave/cli, bild, go-colorful* [🔗](#)

- Built a Go command-line tool to generate Android & iOS app icons, notification icons, and Play Store assets at all DPIs.
- Designed a modular image-processing pipeline using bild and go-colorful for efficient resizing, recoloring, and compositing.
- Structured a modular CLI with urfave/cli supporting flexible inputs and subcommands.

### Username R Gen – Pseudo-Random Username Generator, *Tech: Go* [🔗](#)

- Built a configurable Go library for generating human-readable usernames from predefined word lists.
- Added customizable dictionaries, delimiters, and postfix strategies to minimize collisions.
- Optimized generation for deterministic use with serialized IDs for scalable user identity systems.

## Skills

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**Backend Development:** Go, ReactiveX (RxGo/Rx patterns) • **DevOps & CI/CD:** Docker, Git, Docker, GitHub Actions, GitLab Pipelines, Bitbucket Pipelines • **Databases:** PostgreSQL, SQLite, Redis • **Other:** Bash, Linux (Daily Driver) •

**Mobile Development:** Flutter, Dart, Android/Java, RxDart