

Utku Alp Turen

Full-Stack Flutter & .NET Engineer

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Full-stack engineer focused on Flutter and .NET systems, with production experience across mobile, web, backend, and release operations. Published 4 mobile applications to App Store and Google Play, including TrackOn Expense, TrackOn Agro, and FAB Coffee, and shipped 10–15 Pharmon Assist updates. Owned and co-led CRM/CLM modules across Flutter mobile/web and .NET CQRS backend while building offline-first synchronization, real-time data flows, CI/CD, container, and live deployment workflows.

Key Highlights

- **Production apps:** Published 4 mobile applications to App Store and Google Play; strongest shipped apps include TrackOn Expense, TrackOn Agro, and FAB Coffee.
- **Full-stack ownership:** Delivered Pharmon Assist modules across Flutter mobile, Flutter web, and .NET CQRS backend, including stock, form, reporting, target, expense, notification, and presentation workflows.
- **Mobile architecture:** Built offline-first field workflows with local database storage, scheduled background synchronization, presentation/media downloads, retry behavior, and mobile storage/performance constraints.
- **Platform delivery:** Worked with GitHub Actions, Docker, Coolify, Azure MSSQL, AWS S3, Sentry, Crashlytics, FCM, Linux servers, SSL/domain setup, logs, backups, and production deployments.

Work Experience

- **Mobile Application Developer** July 2024 – Present
On Yazılım Danışmanlık | Adana
 - **Pharmon Assist full-stack delivery:** Designed, implemented, and co-led CRM/CLM modules across Flutter mobile, Flutter web, and .NET CQRS backend; owned full-stack delivery for Stock Management and Form Management, co-led Target Management, and improved reliability across most listed modules.
 - **Offline-first mobile architecture:** Built local-database synchronization workflows for field users, including scheduled background sync when internet is available, presentation/media download jobs, retry behavior, and storage/performance handling for mobile devices.
 - **Expense and real-time products:** Developed the TrackOn Expense mobile app and Pharmon-side integration surfaces, and built TrackOn Agro Flutter mobile/tablet/web interfaces with SignalR live-data handling and real-time system design contributions.
 - **Publishing and release operations:** Published 4 mobile apps to App Store and Google Play, shipped 10–15 Pharmon Assist updates, and managed release readiness for TrackOn Expense, TrackOn Agro, and FAB Coffee.
 - **Platform operations:** Deployed TrackOn Queue, Predicton, and FAB Coffee backend services to live servers; worked with GitHub Actions, Docker, Coolify, Azure MSSQL, AWS S3, Google Maps/Routes APIs, Sentry, Crashlytics, FCM, SSL/domain setup, logs, backups, and environment management.
 - **Product collaboration:** Conducted 10+ stakeholder presentations, translated ambiguous business needs into technical requirements, and mentored 4 interns in production development workflows.
- **Mobile Application Developer Intern** June 2024 – July 2024
On Yazılım Danışmanlık | Adana
 - Fast-tracked to a full-time role within one month after independently delivering MVP features and production-ready mobile work.
 - Built a medical-practitioner data automation flow with web scraping, scheduled background updates, PostgreSQL storage, and a Next.js dashboard for operational visibility.
- **Flutter Developer Intern** July 2023 – Sept 2023
Kent Yazılım | Adana
 - Delivered 5+ Flutter/Firebase mobile applications while building practical experience with Riverpod, flutter_hooks, and polished mobile UI flows.
 - Gained hands-on C#/.NET Core foundations through REST API design and modular monolith architecture patterns.

Academic Research

- **B.Sc. Thesis: Machine Learning-Based Reconstruction of Lost Acoustic Messages in UUVs** June 2025
GitHub Repository: [UtkuATuren/usvCommsSim](https://github.com/UtkuATuren/usvCommsSim)
 - Co-authored a real-time packet reconstruction study for Unmanned Underwater Vehicles, building a Python acoustic simulator with GUI support and a data set of 1M+ labeled communication events.

- Trained and compared LSTM, CNN, and Transformer models; the best custom CNN reached 90.8% command accuracy and 87.3% parameter recovery accuracy within a ± 2 bin tolerance.

Selected Production Projects

- **Pharmon Assist – CRM/CLM Field-Force Platform** **2024 – Present**
A modular pharmaceutical field-force platform spanning visit planning, reporting, forms, stock, targets, presentations, announcements, expense workflows, and mobile/offline field operations.
 - Delivered full-stack Flutter mobile/web and .NET CQRS modules, including Stock Management and Form Management, while co-leading Target Management and improving reliability across the broader module set.
 - Implemented mobile background synchronization and presentation download workflows so field devices can stay current and usable under unreliable connectivity.
- **TrackOn Agro – Real-Time Smart Agriculture Interface** **2025**
 - Built Flutter mobile/tablet/web interfaces and contributed to the real-time system design, including SignalR live-data flows for field monitoring.
- **FAB Coffee – Published Loyalty Application** **July 2025 – Nov 2025**
 - Managed the mobile release lifecycle through App Store and Google Play and implemented secure QR-based loyalty transaction flows.
- **Voyager – Full-Stack Social Travel Platform** **Nov 2023 – Nov 2025**
 - Built a Flutter/.NET architecture with offline-first mobile patterns, SignalR real-time flows, Google platform API setup, and S3 presigned URL upload workflows.

Skills & Technologies

- **Mobile:** Flutter • Dart • Riverpod • flutter_hooks • GoRouter • Local Databases • Offline Sync • Background Tasks • SignalR Clients • FCM • App Store / Google Play Releases
- **Backend:** C# • ASP.NET Core • .NET • CQRS • REST APIs • Entity Framework Core • Dapper • PostgreSQL • Azure MSSQL • TickerQ
- **Platform/Ops:** GitHub Actions • Docker • Coolify • Linux Servers • CI/CD • SSL/Domain Configuration • Environment Management • Logs • Backups • Production Deployments
- **Cloud/Integrations:** AWS S3 • S3 Presigned URLs • MinIO • Firebase • Crashlytics • Sentry • Google Maps/Routes APIs • FCM • Azure
- **Data/AI:** Python • NumPy • Pandas • Scikit-learn • PyTorch • CNN • LSTM • Transformers • Predictive Modeling

Education

- **Çukurova University** **Jan 2026 – Present**
M.Sc. in Computer Engineering – Data Science Focus
- **Çukurova University** **Sep 2022 – July 2025**
*B.Sc. in Computer Engineering | **Ranked 3rd in Department** | GPA: 3.41 / 4.00*
Key coursework: Distributed Systems, Advanced Database Management, Software Architecture, Artificial Intelligence, Machine Learning, Digital Image Processing.
- **Abdullah Gul University** **Sep 2020 – June 2022**
B.Sc. in Computer Engineering coursework before transfer to Çukurova University