



Elyes Darouich

Mobile Software Engineer

5th Year Engineering Student at ESPRIT

+216 94 906 400
skyrexcgaming@gmail.com
Bizerte, Tunisia

linkedin.com/in/elyesdarouich
github.com/ElyesD1
23 years old

Professional Summary

Passionate mobile software engineer in 5th year at ESPRIT (3ème année cycle d'ingénieur), specializing in cross-platform mobile development. Expert in iOS (SwiftUI, UIKit), Android (Kotlin), Flutter, and full-stack web development with React, NestJS, Next.js, and Spring Boot. Experienced in AI/ML integration, DevOps practices, and agile methodologies with proven track record in enterprise-level projects and innovative personal applications.

Technical Skills

Programming Languages

Mobile & Native: Java, Kotlin, Swift, Dart/Flutter, Objective-C

Web & Backend: JavaScript, TypeScript, PHP, Python, C++, C

Database: SQL, NoSQL, MongoDB, MySQL, Firebase, SQLite

Mobile Development

iOS Development: SwiftUI, UIKit, Core Data, MapKit, iOS SDK, Xcode

Android Development: Kotlin, Java, Android SDK, Jetpack Compose, Android Studio

Cross-Platform: Flutter, Dart, React Native, Xamarin

Web & Backend Technologies

Frontend: React, Next.js, Vue.js, HTML5, CSS3, Bootstrap, Tailwind CSS

Backend: NestJS, Node.js, Spring Boot, .NET, Symfony, Express.js

APIs: REST, GraphQL, WebSockets, Socket.IO, Microservices

Cloud & DevOps

Cloud Platforms: AWS, Google Cloud, Firebase, Vercel

DevOps: Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins

Tools: Git/GitHub, Linux, PowerBI, Arduino, Postman

AI & Machine Learning

AI Integration: Google Gemini API, OpenAI GPT, TensorFlow Lite

ML Concepts: Natural Language Processing, Computer Vision, Deep Learning

Methodologies & Practices

Development: Agile/Scrum, Test-Driven Development, Clean Architecture

Design: UML, Figma, Adobe XD, Responsive Design, UI/UX Principles

Professional Experience

Engineering Intern - Mobile & Backend Development

Talan Tunisia

Dec 2024 - Feb 2025

Tunis, Tunisia

- Designed and developed **ProjectFlow** - a comprehensive cross-platform project management platform using Flutter & NestJS architecture
- Implemented robust authentication system with JWT + Google OAuth integration and role-based access control

- Built responsive Kanban board with drag-and-drop functionality across mobile, web, and desktop platforms
- Integrated real-time collaboration features using WebSockets and Socket.IO for seamless team communication
- Developed AI Assistant powered by Google Gemini 2.0 Flash for intelligent task automation and project insights
- Implemented comprehensive DevOps pipeline with Docker containerization, GitHub Actions, and Nginx deployment
- Achieved exceptional performance with API response times ≤ 150 ms and stable performance for 100+ concurrent users
- Contributed to 78% test coverage with comprehensive unit and integration testing using Jest and Flutter Test
- Sprint management and analytics dashboard implementation with real-time data visualization

Flutter Developer Intern

Vatech WABAG

Summer 2023

Tunis, Tunisia

- Developed comprehensive Flutter application for automating employee leave management processes
- Built and integrated RESTful API for seamless backend communication and real-time data processing
- Designed intuitive user interface with real-time push notifications and status updates
- Collaborated extensively with HR team to gather functional requirements and implement business logic
- Implemented secure authentication system with role-based access control for different user types
- Optimized app performance and user experience across Android and iOS platforms

Industrial Trainee

Vatech WABAG

Summer 2022

Tunis, Tunisia

- Gained comprehensive understanding of company management and organizational processes
- Developed strong teamwork and internal communication skills through cross-functional collaboration
- Learned complete IT project lifecycle in enterprise environment from planning to deployment
- Participated actively in cross-functional team meetings and strategic planning sessions

Key Projects

ProjectFlow - AI Project Management Platform

2024-2025

- **Technologies:** Flutter, NestJS, MongoDB, Docker, Google Gemini AI, WebSockets, JWT, OAuth
- Cross-platform project management solution with intelligent AI integration for task automation
- Real-time Kanban boards with drag-and-drop functionality across mobile, web, and desktop platforms
- AI assistant for automated task creation, deadline suggestions, and project performance insights
- WebSocket-powered real-time collaboration with instant updates and team communication features
- Comprehensive user management with role-based access control and Google OAuth integration
- Advanced analytics dashboard with sprint management and performance tracking

Riftpedia - League of Legends Match Tracker

2024

- **Technologies:** SwiftUI, MapKit, Riot Games API, iOS SDK, Core Data
- Comprehensive iOS application for tracking League of Legends match statistics and game analysis
- Interactive Runeterra map integration with match location visualization and champion analytics
- Detailed match statistics with performance analysis and historical data tracking
- Champion build recommendations based on current meta analysis and win rate statistics
- Real-time match tracking with live game updates and post-game detailed breakdowns
- Social features for comparing performance with friends and sharing match highlights

Employee Leave Management System

2023

- **Technologies:** Flutter, REST API, Firebase, Push Notifications, Material Design
- Comprehensive leave management automation system for enterprise-level deployment
- Automated leave request and approval workflow with multi-level authorization
- Real-time notifications and status updates for all stakeholders
- Integration with HR systems and comprehensive reporting dashboard
- Role-based access control with different interfaces for employees, managers, and HR

E-Commerce Platform

2023

- **Technologies:** React, Next.js, Node.js, MySQL, Stripe API, AWS S3
- Full-stack e-commerce solution with modern UI/UX and secure payment processing
- Advanced product catalog with search, filtering, and recommendation engine
- Secure payment gateway integration with Stripe for multiple payment methods
- Admin dashboard for inventory management, order processing, and sales analytics
- Responsive design optimized for desktop, tablet, and mobile devices

University Management System

2022

- **Technologies:** Java, Spring Boot, MySQL, Thymeleaf, Bootstrap
- Comprehensive academic management system for student and faculty administration
- Student enrollment, course management, and grade tracking functionality
- Faculty dashboard for course creation, assignment management, and student evaluation
- Administrative tools for semester planning, room scheduling, and academic reporting

Content Management Website

2022

- **Technologies:** PHP, Symfony, MySQL, HTML/CSS, JavaScript, Bootstrap
- Dynamic content management system with custom admin interface
- Responsive design optimized for all devices with modern UI components
- User-friendly admin panel for content creation, editing, and publishing
- Database integration with optimized queries for fast content retrieval

2D Game Development with SDL

2021

- **Technologies:** C, SDL Library, Game Physics, Custom Graphics Engine
- Custom 2D video game with advanced game mechanics and collision detection system
- Comprehensive scoring system with level progression and difficulty scaling
- Custom level design tools and asset creation pipeline
- Optimized game physics engine for smooth character movement and interactions

Education

Computer Engineering - Mobile Development Specialization
ESPRIT (École Supérieure Privée d'Ingénierie et de Technologies)

2021 – Present
Ariana, Tunisia

- Currently in 5th year (3ème année cycle d'ingénieur) with specialization in mobile application development
- Completed 4th year engineering internship at Talan Tunisia developing ProjectFlow platform
- Advanced coursework in software architecture, AI integration, system design, and enterprise development
- Hands-on experience with modern development frameworks, DevOps practices, and agile methodologies
- Active participation in hackathons, programming competitions, and technical workshops
- Strong academic foundation in algorithms, data structures, databases, and software engineering principles
- Cross-platform development expertise gained through comprehensive mobile development curriculum

Baccalauréat in Computer Science
Lycée Jeune Fille

2021
Tunisia

- Graduated with specialization in Computer Science and advanced Mathematics
- Strong foundation in programming fundamentals, logical thinking, and problem-solving methodologies
- Active participation in national mathematics and computer science competitions
- Early development of passion for software development and innovative technology solutions

Languages

Arabic: Native Speaker

French: Advanced (B2)

English: Fluent (C1)

Certifications & Achievements

Successfully completed engineering internship at Talan Tunisia with excellent performance review

Participated in multiple hackathons and programming competitions at national and university level

Contributed to open-source projects on GitHub with focus on mobile development and AI integration

Self-taught in advanced AI/ML technologies including Google Gemini API and OpenAI integration

Mentored junior students in mobile development and software engineering best practices

Active member of ESPRIT programming clubs and technical communities

Interests & Activities

Technical Interests: Problem Solving, AI & Machine Learning, Mobile Innovation

Professional Development: Hackathons, Programming Competitions, Open Source

Personal Interests: Gaming, Technology Trends, Continuous Learning

Community: Mentoring, Technical Workshops, Student Organizations