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GitHub GitLab ATPL Pro App

Professional Summary

Full-Stack Engineer with 1.5+ years of production experience at Zyrik LLC shipping multi-platform web and mobile applications to global users. Published ATPL Pro aviation app on Google Play Store and Apple App Store (100+ downloads). Specialized in REST API design, offline-first architecture using SQLite, cloud synchronization, and UI/UX optimization. Computer Engineering degree with 3.82/4.0 GPA.

Key Achievements

- **Published Product:** Shipped ATPL Pro to Google Play and Apple App Store (100+ downloads) with integrated PDF reader, offline SQLite sync, and real-time analytics
- **Performance Optimization:** Reduced API latency by 40% (2.5s → 1.5s) and page load times by 50% through database query optimization and asynchronous background syncing
- **Full-Stack Platform:** Launched ATPLPro.eu aviation e-learning platform using Next.js, Node.js, and PostgreSQL, serving thousands of students
- **Backend Systems:** Designed 15+ production REST APIs with token-based authentication, role-based authorization, error handling, and data aggregation
- **Real-Time Systems:** Built GPS tracking system with ESP32 hardware integration, ThingSpeak connectivity, and location-based geofencing
- **Deployment Automation:** Automated iOS/Android deployments via Expo EAS and web deployments via GitLab CI/CD; eliminated build errors and reduced overhead by 60%

Technical Skills

- **Backend:** Node.js, Express.js, REST API Design, GraphQL, Authentication/Authorization, Middleware, 15+ Production APIs
- **Frontend:** React.js, React Native, Next.js, Context API, Redux, Tailwind CSS, Responsive Design
- **Databases:** MongoDB, MySQL, PostgreSQL, Schema Design, Query Optimization
- **Languages:** JavaScript (Expert), TypeScript, Python, SQL
- **DevOps & Tools:** Expo EAS, GitLab CI/CD, Automated Testing, Git, Postman, Vercel, Firebase
- **Specializations:** Offline-First Architecture, Apyrse PDF SDK, Real-Time Systems, IoT Communication

Professional Experience

Full-Stack Engineer	Zyrik LLC	Jan 2025 – Sept 2026 (1.5+ Years)
• Shipped ATPL Pro to production: integrated Apyrse PDF SDK, implemented offline SQLite persistence with background cloud syncing, deployed to iOS and Android app stores • Launched ATPLPro.eu platform: architected PostgreSQL schema, developed 15+ REST API endpoints, deployed responsive UI with 50+ React components serving thousands daily • Reduced API latency 40% and page loads 50% through strategic database indexing, N+1 query refactoring, and intelligent caching implementation • Developed offline-first React Native app enabling full functionality without internet via bi-directional SQLite-to-PostgreSQL synchronization • Built quiz analytics engine with real-time progress tracking, user performance metrics, and MongoDB aggregation pipelines for reporting • Automated deployments: configured Expo EAS for iOS/Android builds and GitLab CI/CD for web; eliminated deployment errors and reduced manual overhead by 60%		

Education

B.S. Computer Engineering	Khawaja Fareed University of Engineering and Information Technology (KFUEIT)	2022-2026
CGPA: 3.82/4.00		
F.Sc. (Pre-Engineering)	Federal Board of Intermediate and Secondary Education (FBISE)	2022

Featured Projects

ATPL Pro – Aviation E-Learning Platform (100+ Downloads)

- Shipped production app to Google Play Store and Apple App Store with 100+ downloads and 4.5+ star rating
- Designed offline-first architecture: modeled SQLite schema with bi-directional sync to cloud; achieved 99.2% sync success rate
- Delivered quiz engine with real-time progress tracking and immediate performance analytics for student submissions
- Integrated Apyrse PDF SDK with custom annotation features, disk caching, and efficient rendering for 500+ aviation documents
- Optimized battery consumption: throttled background sync cycles, reducing drain by 30% during extended 8-hour study sessions

ATPLPro.eu – Full-Stack Aviation Platform

- Executed end-to-end platform development: created 15+ REST API endpoints and delivered 50+ modular React components
- Designed and optimized PostgreSQL schema supporting core data models; improved query performance across key workflows
- Modernized UI by migrating 50+ components from Bootstrap to Tailwind CSS; reduced CSS bundle by 25% and unified design consistency
- Accelerated backend performance by refactoring N+1 queries and deploying caching layers; achieved 40% speed improvement

IoT-Based Smart Queue Management System

(Final Year Project)

- Built full-stack IoT solution: React Native client, Node.js/Express backend, ESP32 microcontroller with WebSocket real-time communication
- Implemented location-based geofencing for security and real-time queue tracking
- Designed MongoDB schema for queue state management with FIFO queue logic and transaction support
- Connected ESP32 hardware (speakers, LCD displays) with MQTT messaging to visualize queue states across 50+ units

Additional Projects

- **AI Blog Automation:** Built FastAPI backend integrating LLM APIs to automate content parsing, evaluation, and publishing (95% accuracy)
- **GPS Tracking System:** Developed React Native app with ThingSpeak integration enabling 15-hour continuous location tracking with optimized battery management
- **Pomodoro Timer:** Released Next.js productivity app with customizable timers and persistent storage

Certifications

JavaScript Development (freeCodeCamp) React.js Development (Udemy)

Languages

English (Professional Working Proficiency) Urdu (Native)