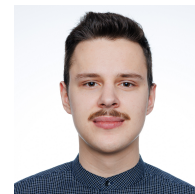


LÉNÁRD-SÁNDOR TUNYA

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EDUCATION

Babeş-Bolyai University

Bachelor of Science in Computer Science

Oct. 2022 – July 2026

Cluj-Napoca, Cluj, Romania

- **Thesis:** crwsync: Design and Development of a Scalable, Real-Time Collaborative Platform
- **Conference:** Presented thesis research at the XXIX. ETDK (Transylvanian Scientific Students' Associations Conference), Informatics II section.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Dart, SQL, Bash, Python, Java

Frontend & Mobile: Next.js, React, React Native, Flutter, Zustand, TanStack Query, Tailwind CSS, Vite

Backend & Data: NestJS, Node.js, Go, PostgreSQL, Redis, Prisma ORM, Socket.io, BullMQ, GraphQL, REST APIs

DevOps & Cloud: AWS (EC2, S3), Docker, GitHub Actions, NGINX, Cloudflare, Linux, Git, Postman

Testing: Jest, Playwright

EXPERIENCE

Codespring

Student Developer (Academic Partnership)

Oct. 2024 – Jan. 2025

Cluj-Napoca, Cluj, Romania

- Developed the frontend chat interface for an AI chatbot application using React Native and integrated REST API endpoints to reduce data payload latency.
- Implemented native device integrations utilizing Expo modules to support direct in-app camera capture and handle secure media payload transmissions.
- Collaborated within a 6-person Agile team, managing project version control via Git and maintaining codebase standards through continuous peer code reviews.

Egnosis

Mobile Development Intern

July 2024 – Aug. 2024

Sfântu Gheorghe, Covasna, Romania

- Implemented the client-side presentation layer for Login, Navigation, and News modules using Flutter and Dart, mapping layout constraints directly from Figma design specifications.
- Connected UI components to GraphQL APIs, managing the client-side data fetching and rendering logic.
- Executed manual rendering tests on physical iOS and Android hardware, isolating and patching platform-specific frontend anomalies to ensure consistent layout behavior across both operating systems.

PROJECTS

crwsync – Real-Time Team & Task Management Platform

TypeScript, Next.js, React, NestJS, PostgreSQL, Redis, Docker

July 2025 – Present

- Architected a full-stack collaboration platform using a Turborepo monorepo, enforcing strict type safety across decoupled Next.js frontends and a NestJS backend.
- Engineered an event-driven synchronization layer using Socket.io and Redis Pub/Sub, enabling horizontal WebSocket scaling and state distribution across a Docker Swarm cluster.
- Implemented optimistic UI updates and cursor-based pagination via Zustand and TanStack Query, guaranteeing immediate client feedback and consistent state recovery upon network reconnection.
- Engineered a real-time messaging pipeline utilizing a Write-Behind caching pattern with Redis and BullMQ, successfully decoupling database persistence to sustain an outbound broadcast volume of 20,000 events/sec on a single Node.js instance.
- Designed a normalized PostgreSQL database schema with Prisma ORM, utilizing database transactions to prevent partial write anomalies and NestJS Guards for dynamic, multi-tier Role-Based Access Control.
- Engineered automated CI/CD workflows with GitHub Actions, accelerating testing and containerized deployments to under 2 minutes on a self-hosted node secured by an NGINX reverse proxy and Cloudflare Tunnel.

LANGUAGES

Hungarian (Native) · Romanian (Professional) · English (Professional)