Andrei Gulin

andreigulin2005@gmail.com | andebugulin.github.io | github | LinkedIn | +358449282476

Experience

Software Developer - *Internship,* Mindhive Oy – Finland, Mikkeli   January 2024 – June 2024
- Built and maintained production-grade web applications using Next.js and Firebase, serving 100+ daily users.
- Implemented responsive UIs, authentication flows, data modeling, and cloud deployment pipelines.
- Developed cross-platform mobile applications using React Native and Flutter, and release builds for iOS and Android.
- Collaborated in an agile team environment, participating in sprints, reviews, and feature delivery under deadlines.

Projects

Knowledge Tree - *Graph-Based Knowledge Management System*   Knowledge Tree | GitHub
- Developed full-stack application with Next.js, TypeScript, tRPC API layer, Prisma ORM, and PostgreSQL.
- Implemented real-time graph visualization using Sigma.js, which uses OpenGL.
- Integrated NextAuth.js for secure authentication and deployed production instance on Vercel.

Awareen - *Screen Time Awareness Mobile App*   Awareen | GitHub
- Designed and built a production Android application fully in Kotlin, using a service-based architecture.
- Implemented persistent overlay services, background execution, and custom Android permissions handling.
- Published a signed release build and distributed the app publicly, gathering 100+ real users.

Guardian - *Android Focus Management App*   GitHub
- Developed an Android application for managing focus through scheduled app blocking and NFC-based controls.
- Built entirely with Kotlin and Jetpack Compose, implementing Foreground Services and AlarmManager APIs.
- Designed service architecture to ensure reliable background operation and minimal battery impact.

Wordor - *Translation & Vocabulary Learning Tool*   GitHub
- Created a Flutter-based translation app that integrates vocabulary learning with spaced repetition algorithms.
- Integrated DeepL API for high-quality translations and Gemini API for AI-powered contextual hints.
- Implemented local database using Drift for offline-first architecture and persistent learning progress.

Ankara - *Enhanced Flashcard Learning System*   GitHub
- Implemented multilingual text-to-speech (TTS) with language detection and batch processing for 1,000+ cards.
- Designed a data pipeline to capture user learning behavior for future machine learning / neural network modeling.

Morner - *Morning Routine Management Solution*   Morner | GitHub
- Developed and deployed a Telegram bot used by 50+ users to structure and automate morning routines.
- Deployed and maintained the service on Oracle Cloud, handling updates, monitoring, logging and uptime.

GaleriYah - *Avant-Garde Photography Portfolio*   GaleriYah | GitHub
- Seamless integration with Flickr for media hosting and Supabase for backend services, admin content page.

ArchBlocker - *Local website blocker for Linux*   GitHub
- Implemented Linux sys integration, including hosts file modification and systemd services for reliable enforcement.

Skills

Mobile: Kotlin, React Native, Flutter, Play Store deployment, background execution
Frontend: React, Next.js, TypeScript, Redux, Lighthouse, Web APIs, WebSockets, i18n, PWA, Jest, Playwright
Backend: Node.js, Python (Flask), Go, Rust, tRPC, gRPC, WASM
Databases: PostgreSQL, MongoDB, ORMs & migrations (Prisma, SQLAlchemy), Search & metrics (Elasticsearch, InfluxDB)
DevOps & Tools: Git, GitHub Actions, Docker, Linux, VMs, Vercel, Railway, Netlify, Grafana, Nginx
Certifications: DeepLearning.AI, Yandex Lyceum, AWS Academy Cloud Foundations – Amazon Web Services, Network Security – Cisco
Machine Learning & AI: NumPy, pandas, scikit-learn, TensorFlow, CNNs, LLMs, data preprocessing, feature engineering

Education

XAMK University, Finland – Bachelor of Engineering, Information Technology (finished 2025)