

# Andrei Gulin

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## 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.
- Focused on data preprocessing, system design, and scalability rather than UI-heavy features.

### 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

**Frontend:** React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, Kotlin/Java, React Native, Flutter

**Backend:** Node.js, Python, Flask, Firebase, REST APIs, Rust, Go, WASM

**Databases:** PostgreSQL, MongoDB, Supabase, Firestore

**Machine Learning & AI:** NumPy, pandas, scikit-learn, TensorFlow, CNNs, LLMs, data preprocessing

**Tools:** Git, Docker, AWS, Linux, Vercel, Netlify

**Certifications:** DeepLearning.AI, Yandex Lyceum, AWS Academy Cloud Foundations – Amazon Web Services, Network Security – Cisco

## Education

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