

# 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

### 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.
- Focused on reliability, low-latency UI updates, and minimizing user interaction to support digital wellbeing.

### Ankara - *Enhanced Flashcard Learning System*

[Ankara](#) | [GitHub](#)

- Built a custom flashcard learning system with a strong emphasis on data collection and analysis.
- 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*

[telegram\\_bot](#) | [GitHub](#)

- Developed and deployed a Telegram bot used by 50+ users to structure and automate morning routines.
- Designed reminder logic, user state handling, and persistent storage.
- Deployed and maintained the service on Oracle Cloud, handling updates, monitoring, logging and uptime.

### Personal Portfolio Website

[andebugulin.github.io](https://andebugulin.github.io)

- Customized the open-source al-folio Jekyll theme to build a personal portfolio.
- Implemented custom pages, content structure, and multilingual support.

### GaleriYah - *Avant-Garde Photography Portfolio*

[GaleriYah](#) | [GitHub](#)

- Developed an admin interface for easier content management.
- Implemented seamless integration with Flickr for media hosting and Supabase for backend services.

### ArchBlocker - *Local website blocker for Linux*

[ArchBlocker](#) | [GitHub](#)

- Built a local productivity tool combining a Flask REST API backend with a React frontend.
- Implemented Linux sys integration, including hosts file modification and systemd services for reliable enforcement.
- Designed the system to be resistant to easy bypassing while remaining transparent and manageable.

## 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)