

GRANCEA ALEXANDRU-NICOLAE

Email: alexandrugrancea25@gmail.com | Phone: 0767799603 | Location: Cluj-Napoca, Romania

GitHub: github.com/Nanu25 | LinkedIn: linkedin.com/in/alexandru-grancea-904a032b6 | Website: agportfolio-a13e2a8e20e4.herokuapp.com

PROFESSIONAL SUMMARY

Results-driven Computer Science graduate from Babeş-Bolyai University with enterprise internship experience at Garmin and Amazon. Proven algorithmic foundation as a National Informatics Olympiad Bronze Medalist and experienced programming instructor. Specialized in mobile application development (Swift/SwiftUI) and scalable backend/cloud architectures.

WORK EXPERIENCE

Garmin — Mobile Software Engineering Intern (Xero Team)

Cluj-Napoca, Romania | Feb 2026 – Present

- Engineer production-ready mobile features, resolve full-lifecycle bugs, and handle customer tickets for the ShotView iOS application using Swift, UIKit, and SwiftUI.
- Collaborate actively with cross-functional product teams using Agile methodologies, participating in peer code reviews, sprint planning, and system refinement.
- Tech Stack: Swift, iOS SDK, Xcode, UIKit, SwiftUI, Git.

Amazon — Software Engineering Intern (Helis Team)

Iasi, Romania | Jul 2025 – Oct 2025

- Automated internal auto-deployment policies to improve pipeline reliability, utilizing AWS Lambda (Java/TypeScript), DynamoDB, DynamoDB Streams, and SQS.
- Designed and implemented a high-throughput REST API to securely retrieve and process real-time deployment logs from DynamoDB.
- Enhanced operational visibility by adding custom fields, tracking components, and interactive data tables to an internal React UI dashboard.
- Configured real-time CloudWatch alarms and automated on-call monitoring metrics to dramatically accelerate production incident detection and resolution.
- Tech Stack: Java, TypeScript, React, AWS Lambda, DynamoDB, DynamoDB Streams, SQS, CloudWatch.

Inventika Place — Programming Instructor (Part-Time)

Cluj-Napoca, Romania | Sep 2023 – Jul 2025

- Mentored and instructed advanced data structures, algorithmic logic, and competitive programming paradigms in C/C++ to top-performing students preparing for Olympiads.

EDUCATION

Babeş-Bolyai University — Bachelor of Science in Computer Science (English Taught Program)

Cluj-Napoca, Romania | 2023 – 2026

- Thesis: Fine-tuning the Whisper Model for Automatic Speech Recognition in Romanian (Specialized in machine learning transcription and AI pipeline visualization).

KEY TECHNICAL PROJECTS

Event Ticket Platform | Java 21, Spring Boot, PostgreSQL, Flyway, JWT, Next.js — [\[GitHub\]](#)

- Engineered a layered RESTful API backend featuring secure JWT multi-role access control for Organizers, Staff, and Attendees.
- Integrated ZXing for QR generation and iText for downloadable PDF tickets; managed database schema migrations via Flyway.

Gym Journal | React, Node.js, Express, PostgreSQL, Gemini API, Heroku — [\[Live Demo\]](#) [\[GitHub\]](#)

- Developed a full-stack fitness application independently from scratch, implementing user authentication and interactive tracking charts.
- Integrated the Gemini API to engineer an intelligent fitness assistant providing custom training advice based on live user metrics.

Habit Tracker (CS50 Final Project) | Django, Python, SQLite, JavaScript, Heroku — [\[Live Demo\]](#) [\[GitHub\]](#)

- Developed a web application to help users build routines, featuring secure authentication, clean visual statistics, and automated streak counters.

TECHNICAL SKILLS & CORE ACHIEVEMENTS

- Languages:** Java, Swift, C, C++, Python, TypeScript, JavaScript, Kotlin, Node.js, SQL.
- Frameworks & Tools:** Spring Boot, SwiftUI, UIKit, React, Next.js, Django, AWS (Lambda, DynamoDB, SQS), Flyway, GRDB, Git.

- **Core Frameworks:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Multithreading, REST APIs, Agile.
- **Languages Spoken:** Romanian (Native), English (B2).
- **Contests & Athletics:** Bronze Medal at the National Olympiad in Informatics; 3rd Place at National Algorithmic Contest; National Handball Olympiad Finalist.
- **Certifications & Interests:** [Harvard CS50 Professional Certificate](#); Competitive Handball, Personal Investing, Deep Learning.