

GRANCEA ALEXANDRU-NICOLAE

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PROFILE

I am a computer science student at Babeş-Bolyai University, in the third year, with many passions such as AI, competitive programming, sports, reading, and personal development. In high school, I received numerous awards in algorithmic contests, including a bronze medal at the national computer science Olympiad, a third-place prize in a national algorithmic contest, and many awards in sports competitions. Also, I am passionate about teaching other pupils the basics of competitive programming.

Experience

Garmin — Mobile Software Engineering Intern, Xero team

February 2026 – Present | Cluj-Napoca, Romania

- Currently undergoing intensive technical onboarding, focusing on Swift and iOS mobile app development.

Amazon — Software Engineering Intern, Helis Team

July 2025 – October 2025 | Iasi, Romania

- Contributed to the **automation of auto-deployment policies**, improving the efficiency and reliability of internal deployment workflows.
- Developed **AWS Lambda functions** (Java, TypeScript) integrated with **DynamoDB, DynamoDB Streams, and SQS**.
- Designed and implemented a new API to retrieve and process deployment data from DynamoDB
- Enhanced the **React UI** by adding tables, fields, and buttons to improve usability.
- Configured **alarms** and **on-call monitoring** for faster incident detection.
- Collaborated in an **agile environment**, participating in code reviews and team-wide development processes.
- **Tech stack:** Java, TypeScript, React, AWS Lambda, DynamoDB, DynamoDB Streams, SQS.

Inventika Place — Programming Instructor (Part-time)

September 2023 – July 2025 | Remote / Cluj-Napoca, Romania

- Mentored and taught competitive programming concepts to students, focusing on advanced algorithms and C/C++.

PERSONAL PROJECTS

Event Ticket Platform | Java 21, Spring Boot, NeonDB, JWT, Next.js

- Developed the RESTful API backend for an event ticketing platform using a layered architecture in Java 21 and Spring Boot.
- Implemented secure user authentication with JWT and multi-role access control tailored for Organizers, Staff, and Attendees.

- Integrated ZXing for QR code generation and iText for downloadable PDF tickets, managing database schema migrations with PostgreSQL and Flyway.
- **Collaborated in a team of two to successfully build and integrate a Next.js UI**
- **Backend Repository:** <https://github.com/alexto0/event-ticket-platform-backend>

Gym Journal | *React, Node.js, PostgreSQL, Express, Gemini API*

- Built a full-stack fitness tracking web application from scratch, allowing users to log workout sessions, track personal records, and visualize progress via interactive dashboards.
- Integrated the Gemini API to create an AI-powered fitness assistant that provides personalized training advice based on user metrics.
- Designed and implemented all features independently, managing everything from secure user authentication to relational data architecture.
- **Live Website:** <https://gymjournal-75451ef51cbf.herokuapp.com/>
- **Repository:** <https://github.com/Nanu25/GymJournal/tree/Heroku>

Habit Tracker (CS50 Final Project) | *Django, Python, SQLite, JavaScript*

- Developed a web application designed to help users build and maintain healthy routines by creating habits and tracking their progress over time.
- Implemented a clean, intuitive interface that calculates and displays visual statistics and streak counting for users.
- **Live Website:** <https://my-habit-tracker-0591dbd6deef.herokuapp.com/>
- **Repository:** <https://github.com/Nanu25/Habits>

ACHIEVEMENTS

- **Informatics:** Bronze Medal at the National Olympiad, 3rd Place at a National Algorithmic Contest, and multiple regional/national programming awards.
- **Sports:** Finalist at the National Olympiad in Handball and multiple medals in regional/national competitions.

COURSES

- Harvard CS50
Link to certificate: <https://cs50.harvard.edu/certificates/07283874-ec9f-473d-9565-ac794316c7ac>
- Learning how to learn by Dr.Barbara Oakley

SKILLS

Languages: Java, C, C++, Python, Kotlin, TypeScript, JavaScript, Node.js

Frameworks & Tools: Spring Boot, Django, React, Next.js, Android (Jetpack Compose), AWS (Lambda, DynamoDB, SQS), PostgreSQL, Git

Core Concepts: Data Structures & Algorithms, Multithreading & Parallel Computing, OOP, REST APIs

Soft Skills: Problem Solving, Teamwork, Leadership, Mentorship, Communication

Languages: English (B2), Romanian (Native)

HOBBIES & INTERESTS

Competitive Handball, Gym & Fitness, Artificial Intelligence, Reading, Investing.