

# Andrei Cotor

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## EDUCATION

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### ETH Zurich

*Incoming Masters degree in Computer Science*

Zurich, Switzerland

*September 2024 – June 2026*

### Babeş-Bolyai University

*Bachelors in Computer Science*

Cluj-Napoca, Romania

*October 2021 – June 2024*

- 9.90/10 GPA (rank 2<sup>nd</sup> out of 199 students) in the 1<sup>st</sup> year
- 10/10 GPA (rank 1<sup>st</sup> out of 182 students) in the 2<sup>nd</sup> year

## EXPERIENCE

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### Software Engineer

*Cloudflight GmbH*

July 2023 – Present

*Cluj-Napoca, Romania*

- Designed and implemented a webapp to help Data Scientists visualize, find and correct mistakes in datasets
- Designed and implemented an internal web application and heuristic strategies to compute and offer employees optimal salary increases while respecting budget constraints
- Created internal libraries for reliable information exchange, using different approaches based on the number of expected messages (from a few to millions) and tech stack, which have been successfully used in multiple projects
- Wrote articles for the company's technical blog
- Used: Kotlin with Spring Boot, Node.js, Vue.js, RabbitMQ, AWS Lambda, Serverless Framework, scheduled tasks, micro-services

### Transcend Software Engineer Mentorship Mentee

*Transcend - Bending Spoons SpA*

October 2022 – March 2023

*Remote*

- Collaborated with a Senior Software Engineer from Bending Spoons as one of the selected 5 students from Romania and 25 students from Europe, gaining invaluable insights and mentorship to excel in the field of software engineering
- Learned about: best practices when coding, Google Cloud, system design, caching, integrating AI models

### Software Engineer Intern

*Cloudflight GmbH*

July 2022 – October 2022

*Cluj-Napoca, Romania*

- Been part of a team developing robust web application for a leading global car manufacturer, enabling car dealers to seamlessly calculate and manage a high volume of financing offers
- Implemented the frontend using *Angular*, and on the backend using *Java with Spring Boot*
- Dealt with: implementing new features, extending the app to multiple global regions, bug-fixes, architecture discussions

## PROJECTS

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### ProblemArena | *Rust, React, Actix Web, Git, Postgres, Python, Sklearn, Docker*

March 2023 – June 2023

- Created full stack web competitive programming training platform, similar to Infoarena, able to easily sustain millions of entries
- Used Rust with Actix web and Diesel for backend, and React for frontend
- Integrated an AI hate speech filter

### Taxi Silcotub | *Node.js, Express, MongoDB, React Native, Git, Expo*

June 2020 – Present

- Developed a full-stack cross-platform mobile application using with Node.js with Express serving a REST API with React Native as the frontend
- Currently used by hundreds of users on a daily basis

## HONORS & AWARDS

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**10<sup>th</sup> Place & Qualification to the European Championship – ICPC SEERC – 2023** (International Collegiate Programming Contest – Southeastern European Regional Contest)

**Made it to 3rd round – Google Code Jam – 2022** (ranked 399 out of 1000; counting the other eliminator rounds there were 32800 participants)

**Selected for the Training Camp for the International Olympiad in Informatics – 2021** (30 students selected out of all high-school students in Romania)

**2nd place & Gold Medal – National Olympiad in Informatics – 2019** (out of all 10<sup>th</sup> grade students in Romania)

**Platinum division – USA Computing Olympiad – 2019**

## VOLUNTEER EXPERIENCE

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<b>Member of the Scientific Cometeet</b>	January 2022 – Present
<i>National Olympiad of Informatics</i>	<i>Romania</i>

- Authored a problem for the Training Camp for the International Olympiad, one for the county phase of the Olympiad, co-authored one in the national phase, and helped prepare a few more

<b>Volunteer – Webdev Team</b>	August 2020 – March 2021
<i>Romanian United Fund</i>	<i>Remote</i>

- Developed on a chatbot for the organisation with *Node.js* and *UiPaht*

## TECHNICAL SKILLS

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**Languages:** Java, Kotlin, Rust, JavaScript, TypeScript, SQL, Python, C/C++

**Frameworks:** Spring Boot, React, Node.js, Vue, Angular, JUnit, Actix Web, Express

**Developer Tools:** Git, Docker, Amazon Web Services, Google Cloud Platform, RabbitMQ, AWS Lambda, MongoDB

**Libraries:** pandas, NumPy, Sklearn, Matplotlib, Tensorflow, Diesel.rs