

# PETRU BRAHĂ

(+40) 740 543 254 | [petrubraha@gmail.com](mailto:petrubraha@gmail.com) | [linkedin.com/in/petru-braha](https://linkedin.com/in/petru-braha) | [github.com/petru-braha](https://github.com/petru-braha)

## EDUCATION

### "Alexandru Ioan Cuza" University

*Bachelor's degree in Computer Science*

Iași, România

*Sep. 2023 – June 2026*

## EXPERIENCE

### Software Dev Engineer | IaC, Typescript, Java

July 2025 – November 2025

*Amazon - Internship*

*Iași, România*

- Delivered **client-requested** features in Amazon's internal authorization tool by gathering requirements and clarifying needs, ensuring solutions were directly aligned with customer expectations
- Enabled programmatic access in the authorization system by replicating the UI functionalities as cloud resources, automating **large-scale deployments**, and underlying API interactions
- Streamlined infrastructure delivery by implementing new **CloudFormation** constructs and integrating them with Java-based **Lambda functions**, reducing setup time and advancing core capabilities
- Enhanced developer experience by improving an existing cloud construct using **TypeScript** and CDK APIs, increasing usability and scalability
- Elevated system reliability by adopting detailed **CloudWatch** logs, reducing issue resolution time, and improving monitoring capabilities
- Ensured stable and consistent releases by achieving over 90% test coverage and integrating code with **CI/CD pipelines**

## PROJECTS

### "GiftHub" | *Leadership, T3 stack, Typescript*

Feb. 2025 – Jun. 2025

- Delivered a fully functional, **24/7 live** platform, by leading the development as the **Product Owner** and applying Scrum methodology effectively across the team
- Ensured **on-time** project delivery by defining clear objectives, and realistic deadlines, and aligning the development efforts through qualitative communication
- Participated in technical design by creating the database schema and the page routers, enhancing the overall system structure and user navigation
- Contributed to the backend infrastructure by working with **Typescript** in the T3 Stack (Next.js, TRPC, Prisma), enabling robust API architecture
- Strengthened code quality and maintainability by setting up **SonarQube**, achieving over 90% code coverage through collaboration with the QA team
- Improved deployment reliability and system performance by **leading DevOps** efforts, including defining the environments, the CI/CD pipelines, and the branching strategy

### "RR-application" | *C, C++, Network Engineering*

Nov. 2024 – Feb. 2025

- Coded an open-source application that clients can query about trains' schedules for their location/time, applying the **client-server** paradigm
- Constructed the server application, assuring **high transmission speed**, by implementing a pre-threaded execution and I/O multiplexing
- Designed the transport protocol, assessing high speed and data correctness, exploiting **TCP and UDP** in their best use cases
- Gathered resources to maintain the server **accessible 24/7**, resembling a realistic, public, and functional service, by utilizing a remote shell provided by my university
- Compiled a **C++** program that randomly generates the trains' routes employing a powerful pseudo-random number generator, Mersenne Twister
- Finished the project, documentation, and further features before the deadline, recording **optimal time management** by consistently developing daily

## TECHNICAL SKILLS

**Languages:** Assembly Language, C, C++, Java, Typescript, Javascript, PHP, SQL, Bash, PowerShell, R

**Frameworks:** Next.js, React.js, Node.js, Spring

**Technologies:** AWS (Lambda, CloudFormation, CloudWatch, S3, IAM roles), Docker, Git, Makefile, Flex, Bison(Yacc), Oracle, MySQL, PostgreSQL, HTML, CSS