Petru Brahă

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Education

"Alexandru Ioan Cuza" University — Iași, România
Bachelor's degree in Computer Science — *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 85% 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