

PETRU BRAHĂ

(+40) 740 543 254 | petrubraha@gmail.com | linkedin.com/in/petru-braha | 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 80% 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