Marcel-Dumitru Ilcea

Senior Full-Stack Engineer

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• Bucharest, Romania

Summary

Innovative Senior Software Engineer with 9+ years of experience designing, building, and optimizing high-performance, scalable systems for global SaaS, fintech, and enterprise platforms. Proven expertise in migrating complex monoliths to AWS-based microservices, architecting cloud-native infrastructures, and delivering secure, user-focused solutions with modern full-stack technologies. Adept at enhancing CI/CD pipelines, improving system performance, and reducing operational costs. Skilled mentor and collaborative leader, driving engineering excellence and cross-functional success in remote and distributed teams.

Skills

Languages & Frameworks: JavaScript (ES6+), TypeScript, Node.js (Express, NestJS), PHP (OOP, Laravel), Java (Spring Boot), C#, HTML5, SCSS, SQL

Frontend:React.js, Next.js, Vue.js, Angular 14, Redux, Tailwind CSS, Bootstrap

Backend & APIs:REST APIs, GraphQL (Apollo), WebSockets, OAuth2, JWT, Prisma, TypeORM, Strapi

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, SQL Server

DevOps & Cloud: AWS (Lambda, ECS, EC2, S3, RDS), Azure (Functions, B2C, App Services), Docker, Kubernetes, Terraform, GitHub Actions, GitLab CI/CD, AWS CodePipeline

Architecture & Practices: Microservices Architecture, High-Availability Systems, CI/CD Pipelines, Agile & Scrum, Clean Code Principles, Performance Optimization, API Design & Integration, Security Best Practices

Experience

Circula
Berlin, Germany - Remote
Senior Software Engineer
11/2021 - 07/2025

- Led the architecture migration from a monolithic system to AWS-based microservices, enabling independent scaling and reducing deployment cycles by **78%**.
- Designed and maintained high-availability infrastructure using Terraform, AWS Lambda, ECS, and RDS, significantly boosting system reliability and scalability.
- Enhanced CI/CD pipelines (GitHub Actions, AWS CodePipeline), cutting rollback times by **75%** and decreasing release failures by **40%**.
- Optimized backend services (Node.js, PostgreSQL), reducing average response times from **750ms → 280ms** while lowering infrastructure costs and increasing throughput.
- Delivered secure, user-focused features with React, TypeScript, and REST APIs, improving product usability and customer satisfaction.
- Mentored engineers, conducted code reviews, and enforced clean code practices to maintain high engineering standards.

Endava
Bucharest, Romania
Senior Full-Stack Developer
03/2018 - 10/2021

- Built and deployed React-based incentive tools, improving UX and reducing customer support inquiries by **25%**.
- Redesigned backend APIs for asynchronous processing, reducing claim processing time from **12 hours → under 3 hours**.
- Optimized Redux state management, boosting dashboard responsiveness by **30%** and enhancing performance.
- Integrated fraud detection and payment APIs, reducing reconciliation errors by **60%** and strengthening transaction security.

Continental Automotive Systems
Sibiu, Romania
Software Developer
07/2016 - 02/2018

- Enhanced shipment tracking systems, increasing accuracy and reducing manual errors by **30%** through optimized backend logic and data validation.
- Integrated healthcare claim processing APIs, improving interoperability, cutting validation errors by **20%**, and ensuring full HIPAA compliance.
- Boosted backend performance by reducing average response times from **800ms → 350ms** via targeted database query optimization and indexing strategies.
- Actively participated in Agile sprints, code reviews, and collaborative development processes, contributing to higher-quality deployments and faster release cycles.

Education

Lucian Blaga University of Sibiu - Sibiu, Romania   12/2012 - 06/2016
Bachelor of Science in Computer Engineering │ GPA: **8.4** / 10

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