

Corneliu Dumitru

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Senior Full-Stack Software Engineer with 10+ years of experience architecting production-grade web applications, real-time workflow platforms, and distributed systems with Next.js, TypeScript, PostgreSQL, and Redis

Skills

Full-Stack & Web	Next.js (App Router, RSC, Server Actions) TypeScript React Tailwind CSS Node.js
Data & Caching	PostgreSQL Redis (Caching, Queues, Pub/Sub) SQL Schema Design & Indexing Prisma MySQL
Cloud & DevOps	Google Cloud Platform (GCP) Kubernetes Docker AWS CI/CD Pipelines REST & GraphQL
Quality & Tooling	Playwright Jest Vitest Git AI Coding Assistants (Cursor, Claude Code) Evals

Professional Experience

CTO & Lead Full-Stack Architect

2023 - Present

Directimo

Bucharest, Romania / Remote

- Architected and built **directimo.com** from scratch: a production vacation property marketplace and intelligence platform powered by Next.js (App Router), React, TypeScript, Node.js, PostgreSQL, and Redis.
- Engineered Crosspoint BI: an end-to-end intelligence suite featuring deal-matching engines, automated data ingestion pipelines (REST, cron, scoring APIs), and real-time alert notifications.
- Designed normalized PostgreSQL schemas, optimized complex query plans, and implemented Redis caching layers for sub-50ms response times across large-scale property datasets.
- Implemented end-to-end authentication, role-based access control, background workers, and third-party integrations (Stripe, transactional notifications, webhooks) with strict edge-case handling.
- Led an engineering team of 5, defining software architecture, establishing CI/CD automation, and enforcing rigorous test coverage using Playwright and Jest.

Next.js TypeScript PostgreSQL Redis Tailwind CSS GCP Kubernetes

Senior Software Engineer

2019 - Present

UiPath

Bucharest, Romania

- Core full-stack engineer on **Studio Web** (studio.uipath.com), UiPath's cloud visual automation IDE and enterprise workflow orchestration platform.
- Architected complex browser-based canvas interfaces, reactive state management, and real-time execution feedback using TypeScript, React/Next.js, and Node.js.
- Engineered Redis-backed caching, distributed state synchronization, and optimized SQL databases for high-throughput workflow telemetry and execution states.
- Designed resilient event-driven microservices on Kubernetes and authored automated end-to-end testing suites with Playwright and Jest.

TypeScript React Next.js Node.js Redis SQL Kubernetes

Solutions Engineer Intern

Summer 2019

Meta

London, UK

- Built enterprise productivity applications and automated integration workflows for global partners on the Meta Platform.
- Developed full-stack features using React, TypeScript, Hack, Elasticsearch, and GraphQL/REST APIs.

React TypeScript GraphQL Elasticsearch

Software Developer

2016 - 2019

Bitdefender

Bucharest, Romania

- Developed high-performance system modules for Antivirus for Mac, focusing on low-level system security, multithreading, and memory optimization.

Systems Architecture Performance Security Multithreading

Honors & Competitions

2019	2nd Prize , TechFest Hackathon	Bucharest, Romania
2016	1st Prize , National Olympiad of Physics	Romania
2014 - 2015	1st Prize , National Olympiad of Informatics	Romania
2012	Bronze Medal , National Olympiad of Informatics	Romania

Education

Bachelor of Science in Computer Science

2017 - 2020

University of Bucharest

Bucharest, Romania

- Core coursework: Data Structures & Algorithms, Distributed Systems, Database Systems, Software Architecture, Artificial Intelligence.

High School Diploma (Mathematics & Informatics)

2013 - 2017

National College "Ion C. Bratianu"

Pitesti, Romania

- Graduated with perfect score (10/10) on Mathematics and Physics Baccalaureate Exams.