

# Iqana Alexandru

Senior Full Stack Product Engineer

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## PROFILE

Senior Full-Stack Product Engineer with over 10 years of experience building high-performance platforms in various industries like AI and Healthcare. Expert in developing scalable web applications, real-time data systems, and secure payment integrations. Proven track record at Jasper and Medicaï delivering complex products that drive user engagement, revenue growth, and compliance with industry regulations. Passionate about creating seamless, high-traffic experiences through modern technologies and best development practices.

## EDUCATION

University of Oradea

09/2009 – 02/2013

Bachelor's degree in Computer Science

## PROFESSIONAL EXPERIENCE

Jasper, Senior Full-Stack Product Engineer (AI-native Development)

08/2021 – Present

- Architected and led Jasper's **globalization** and **AI content platform**, enabling **multi-language marketing content generation** across multiple regions, supporting **over 200K active users monthly**.
- Designed and **developed** high-performance **React** and **Next.js** applications, implementing **SSR/CSR strategies**, **advanced state management**, and **optimized rendering pipelines** for complex **AI workflows**, improving responsiveness and user experience.
- Built **Node.js backend services** exposing well-structured **RESTful APIs**, implementing **authentication**, **authorization**, **versioning**, **rate limiting**, and **standardized error handling**, ensuring robust security and maintainability.
- Implemented **GraphQL APIs** to **aggregate** and **normalize data** across multiple **microservices**, reducing frontend **over-fetching** and improving **developer velocity** for engineers building **AI-driven features**.
- Developed **Python FastAPI microservices** to **orchestrate AI/LLM content pipelines**, managing **prompt execution**, **workflow coordination**, **response validation**, and **content personalization** to ensure high-quality generated outputs, handling **over 1M prompts per month**.
- **Built interactive data visualizations** using **D3.js** and **Chart.js**, enabling dynamic **analytics dashboards** and real-time insights for marketing and user engagement metrics.
- Integrated **AI/LLM-based content generation** into both **frontend** and **backend layers**, automating **marketing copy creation**, **localization**, and **optimization**, reducing manual effort for content teams.
- Deployed and operated services on **AWS**, leveraging **EC2**, **ECS/Lambda**, **API Gateway**, **S3**, **RDS/DynamoDB**, and **CloudWatch**, with fully automated **CI/CD pipelines** and optimized **multi-region deployments** for **low-latency content delivery**.
- Built and maintained **payment processing workflows**, integrating **Stripe** and **PayPal APIs** to handle **secure transactions**, **subscription management**, and **billing workflows**.
- Enforced **TypeScript** across **frontend** and **backend codebases**, establishing **shared API contracts**, **strong typing**, and safer **refactoring practices** to improve **code quality** and **maintainability**.

Skills: React, Next.js, Node.js, TypeScript, Python, WebSockets, GraphQL, AI/ML, microservice, CI/CD, AWS, ECS, Payment Integration, Lambda, DynamoDB, RESTful APIs

- Developed and maintained front-end features of Cloud-Based Medical Imaging Platform using **React**, **Next.js**, **TypeScript**, and modern **JavaScript** to enhance UI responsiveness and clinical workflows.
- Implemented **server-side rendering (SSR)** and **static site generation (SSG)** in **Next.js** to optimize performance for large imaging datasets.
- Built and optimized **RESTful APIs** using **Node.js**, **Express**, and **MongoDB/PostgreSQL** for secure medical imaging data transfer and patient record management.
- Integrated **DICOM viewers**, **PACS/RIS connectors**, and other imaging services through **Node.js microservices** and **React components**.
- Added **authentication**, **authorization**, and **RBAC** using **JWT**, **OAuth**, and secure middleware to protect sensitive healthcare data.
- Improved front-end performance via **code splitting**, **lazy loading**, **caching strategies**, and **image optimization** in **Next.js**.
- Created internal **admin dashboards** with **React**, pulling metrics from **Node.js APIs**, **GraphQL**, or **REST endpoints**.
- Contributed to deployment infrastructure using **Docker**, **GitHub Actions**, **CI/CD pipelines**, and **containerized microservices**.
- Performed **unit testing** and **integration testing** with **Jest**, **React Testing Library**, and **Supertest** to ensure reliability during rapid feature iteration.
- Collaborated closely with **product managers**, **backend engineers**, and **DevOps** to deliver scalable features for the 2020 platform launch.

Skills: React, Next.js, TypeScript, JavaScript, SSR, SSG, Next.js, RESTful APIs, Node.js, Express, MongoDB/PostgreSQL, microservices, JWT, OAuth, image optimization, testing

## Allbirds, Junior Frontend Developer

05/2015 – 05/2017

- Designed and maintained enterprise front-end components for the internal order management dashboard, improving **UI/UX** for operations and customer support teams.
- Developed responsive, data-driven interfaces with **React** and **Redux** to display real-time order and inventory information.
- Collaborated with backend engineers to integrate **REST APIs** and ensure accurate order and fulfillment tracking.
- Implemented performance optimizations for large datasets, improving dashboard responsiveness for thousands of daily orders.
- Built **reusable UI components** and standardized design patterns to support future scalability across internal tools.
- Supported adoption of best practices and workflow improvements across operations teams using the platform.

Skills: React, Next.js, TailwindCSS, REST API, UI/UX

## SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, C#, JSON, PHP, C/C++, Java

Frameworks: Angular, React JS, Redux, Vue.js, Next.js, Node.js, Nest.js, Spring, Spring Boot, RESTful APIs, GraphQL, AJAX, D3.js, Vuex, Nuxt.js

Cloud Platforms: AWS, Azure, GCP

Databases: SQL, NoSQL, MySQL, PostgreSQL, MongoDB, Amazon DynamoDB

Other Skills: Accessibility, Web Socket, Agile Methodology, Contentful, Project Management, Scrum, DevOps, CI/CD, Unit Testing, Responsive Design & Mobile-First Websites, WordPress, Headless CMS, Shopify, Detail-Oriented, European AI Act