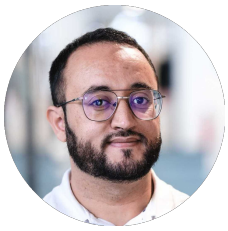

# Hamza Rhimi

## Senior Frontend Software Engineer

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## Professional Summary

Senior Frontend Engineer with 9+ years of experience building scalable web applications and ecommerce platforms with React, Next.js, Angular, and TypeScript. 5+ years on the micro-frontend platform behind jochen-schweizer.de and mydays.de, from the accessible design system to NestJS services and edge logic. Focused on frontend architecture, Core Web Vitals and SEO, personalization, and AI-assisted development.

## Core Expertise

**Frontend:** React 19, Next.js, Angular, TypeScript, JavaScript, Redux, SSR

**Architecture & Design Systems:** Micro-frontends and server-side composition, React Aria, React Stately, Storybook, Rspack & SWC, npm Workspaces

**Backend & Cloud:** NestJS, Fastify, Node.js, Kafka (event-driven architecture), REST APIs, MongoDB, Docker, Kubernetes, AWS Lambda & CloudFront, Nginx, GitLab CI/CD

**Performance, SEO & Personalization:** Core Web Vitals, Lighthouse, RUMvision, structured data, Dynamic Yield, Algolia

**Quality & Observability:** Jest, React Testing Library, Puppeteer, Sentry, SonarQube

**AI Tooling:** Cursor, Claude Code, Agent Skills & MCP, n8n (AI agent workflows)

## Education

Master's Degree in Telecommunication and Network Systems
ENET'COM – University of Sfax, Tunisia (2011 – 2013)

Bachelor's Degree in Computer Science
University of Sciences of Gafsa, Tunisia (2008 – 2011)

## Professional Experience

### Senior Frontend Software Engineer

*Jochen Schweizer mydays Group – Munich, Germany | May 2021 – Present*

- **Platform ownership.** Core contributor (5+ years) to the fragment-based micro-frontend platform behind two of Germany's leading experience-gifting ecommerce brands (jochen-schweizer.de, mydays.de, part of the ProSiebenSat.1 Media Group). Primary maintainer of the platform's highest-traffic product discovery surface, authoring ~15% of its commit history since 2021 across 41 of the platform's ~50 microservices, spanning a shared catalog of 9,000+ bookable experiences.
- **Architecture and backend.** Build fragments for a server-side composition architecture in which a dedicated NestJS orchestration service assembles full pages in parallel from fragment HTML via a custom templating engine, with Kafka-driven redirect handling and Nginx reverse proxy routing at the edge. Develop NestJS services (product data, navigation, catalog indexing) and AWS Lambda@Edge functions for CDN-level logic, including personalization payloads and third-party script cleanup.

- **Design system.** Contribute to the shared design system (330+ commits over 5 years), built on React Aria and React Stately for accessible-by-default UI primitives, validated through Storybook's accessibility tooling.
- **Personalization and experimentation.** Led the integration of the Dynamic Yield personalization platform and Algolia search across product listing and detail pages, including the homepage hero banner, product recommendation experiences, and dedicated conversion-tracking instrumentation. Implement feature-flagged rollouts and A/B tests for pricing, filtering, and merchandising experiences.
- **Performance and SEO.** Work on frontend SEO and Core Web Vitals, including structured data (schema.org), crawlability improvements, and performance monitoring with Lighthouse and RUMvision.
- **Quality and delivery.** Contribute to an internal Jest- and Puppeteer-based synthetic testing service that continuously runs scheduled backend and frontend UI test journeys in production, with Allure reporting; maintain unit and component test coverage and resolve issues surfaced by Sentry and SonarQube. Own CI/CD pipeline work, including GitLab CI and container registry migrations across multiple services, in Agile cross-functional teams with backend engineers, designers, QA, and product stakeholders.

**Technologies:** React 19, TypeScript, JavaScript, Next.js, NestJS, Fastify, Redux, Micro-Frontends, Rspack, SWC, React Aria, React Stately, Storybook, Dynamic Yield, Algolia, Kafka, Jest, React Testing Library, Puppeteer, Lighthouse, RUMvision, Docker, Kubernetes, AWS Lambda, AWS CloudFront, Nginx, GitLab CI, npm Workspaces, Sentry, SonarQube, Git, Cursor

### Frontend Engineer

*Check24 – Munich, Germany | January 2019 – March 2021*

- Contributed to a large-scale Angular application for digital loan comparison and online applications (kredit.check24.de).
- Developed responsive and reusable frontend components using Angular and TypeScript.
- Worked on API integrations and dynamic financial workflows.
- Resolved frontend performance and usability issues across the platform.

**Technologies:** Angular 8, TypeScript, Node.js, MongoDB, REST APIs

### Frontend Developer

*Mobelite-LABS – Monastir, Tunisia | December 2016 – December 2018*

- Developed responsive front-end applications using modern HTML5 and CSS3 techniques with Angular and jQuery.
- Built and integrated API-driven applications using RESTful services, AJAX, and JSON.
- Designed and implemented responsive UI systems and custom CSS grid layouts for cross-device compatibility.
- Collaborated closely with backend and design teams to integrate frontend interfaces into enterprise applications.
- Tested and optimized frontend applications across multiple browsers and devices to improve stability and performance.
- Created responsive HTML email templates and newsletters compatible with major email clients.

**Technologies:** Angular, Ionic, Cordova, JavaScript, jQuery, HTML5, CSS3, Bootstrap, REST APIs

### Web Integrator

*CAP-Technologies – Gafsa, Tunisia | August 2015 – November 2016*

- Converted PSD and design mockups into responsive HTML/CSS interfaces.
- Built and maintained ecommerce and CMS-based websites.
- Developed interactive web pages using JavaScript and jQuery plugins.
- Worked on responsive layouts and mobile compatibility improvements.

**Technologies:** HTML, CSS, JavaScript, jQuery, Joomla, Bootstrap

## Selected Projects

### SpecLens

AI agent skill, co-built with colleagues during a company hackathon, that automates UX QA of implemented features against Jira acceptance criteria and Figma designs.

- Co-developed and iterated the skill with AI-assisted tooling (Claude Code, MCP), using a fixture-based evaluation loop to compare each revision against the previous one.
- Implemented per-tenant URL targeting, so a single review covers different pages per brand and country and still posts one Jira comment.
- Contributed to the review design: findings come from measured DOM values rather than screenshots, noise thresholds suppress false positives, and every run reports New, Still Open, Fixed, or Unable to Verify against the previous review.

**Technologies:** Claude Code Agent Skills, MCP (Figma, Chrome DevTools), Jira REST API, Node.js, JavaScript

### Event-Driven Ticketing Platform

Personal project exploring event-driven microservices architecture, built and run independently of any employer codebase.

- Designed and built 5 independent Node/TypeScript services (auth, tickets, orders, payments, expiration), each with its own Express API, MongoDB database, and Dockerfile.
- Implemented event-driven choreography across all services using NATS Streaming, including optimistic concurrency control for safe event ordering.
- Built automatic order-expiration handling with Bull and Redis, publishing compensating events to cancel unpaid orders and release reserved tickets.
- Integrated Stripe for payment processing and built the Next.js client.
- Authored and published a shared internal npm package for cross-service middleware and types, and wrote Kubernetes manifests (separate dev/prod) with Skaffold for local cluster development.

**Technologies:** Node.js, TypeScript, Express, MongoDB, NATS Streaming, Redis, Bull, Stripe, Next.js, Docker, Kubernetes, Skaffold

**Link:** https://github.com/hamzaRh/ticketing

## Scientific Publication

*A Quantum Particle Swarm Optimization for the 0–1 Generalized Knapsack Sharing Problem*

Research study proposing a hybrid heuristic approach combining Quantum Particle Swarm Optimization (QPSO) with local search techniques.

https://link.springer.com/article/10.1007/s11047-014-9470-5

## Languages

Arabic – Native
English – Fluent
French – Advanced
German – B1

## Interests

Movies & Series, Video Gaming, Hiking, Walking, Reading