



Hasan BAYDOGAN

Frontend Engineer | Full-Stack Product Engineer

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Full-Stack Product Engineer expert in architecting Next.js SaaS platforms from scratch, integrating AI/LLM pipelines, and managing autonomous product lifecycles.

Professional Summary

Results-driven Frontend Engineer & Full-Stack Product Engineer with 2+ years of experience architecting scalable SaaS platforms from scratch. Expert in designing end-to-end system architectures, combining modern React/Next.js ecosystems with robust Java Spring Boot backends and high-throughput databases. Proven track record in LLM integration, leveraging advanced prompt engineering to process unstructured big data and building custom AI-augmented agentic workflows. Actively owns the entire DevOps lifecycle—managing VPS environments, secure Docker networks, and automated CI/CD pipelines—while leading cross-functional teams to deliver enterprise-grade digital products.

Areas of Expertise

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|--------------------------------|-----------------------------|-------------------------|------------------------------------|
| • React / Next.js (App Router) | • TypeScript | • Java - Spring Boot | • Tailwind CSS / shadcn/ui |
| • MongoDB / PostgreSQL | • Docker / Nginx Deployment | • Git / CI/CD Pipelines | • AI-Augmented Dev (Cursor/Claude) |

PROJECTS & ACCOMPLISHMENTS

- **VAK-A (Founder & Developer):** Architected and deployed a cross-platform social network (React Native, Node.js, PostgreSQL, Firebase) on Apple & Google stores featuring gesture-driven UI.
- **Teknofest Rocket Team (Mechanical Team Captain):** Led a multidisciplinary team for High Altitude Competition, securing 6th and 16th place out of 400+ teams in Turkey.

Professional Experience

Software Developer / Technical Lead, Asparel / FLY AI & ExportAI

Nov 2024 to Present

- **FLYAI - AI Logistics Engine:** Architected an end-to-end AI-driven RFQ and supply chain engine that automatically fetches inbound aviation emails, parses unstructured attachments using LLMs, and programmatically routes automated queries via ILS part-query systems.
- **FLYAI - Automated Bid Matching:** Developed nightly background processing pipelines that programmatically evaluate multi-source supplier quotes, match optimal pricing algorithms, and drive intelligent UI transaction wizards (RFQ, Quote, PI, PO, and Freight Forwarder portals).
- **ExportAI - Core Architecture:** Engineered the entire frontend architecture of ExportAI from scratch using Next.js 14 App Router, TypeScript, and Zustand. Implemented static export optimizations and 3 core interactive visualization modules with complex data filtering for aviation logistics.
- **End-to-End System Design & Refactoring:** Designed and spearheaded the modular refactoring of platforms spanning 40+ domain modules. Built custom AI-augmented agentic workflows to automate legacy migrations, successfully increasing overall sprint task throughput by ~30% and eliminating technical debt.
- **Full-Stack Database & DevOps Pipelines:** Designed robust RESTful APIs with Java 17 and Spring Boot 3. Managed and optimized MongoDB collection schemas for high-volume corporate records, while owning the entire multi-environment (Dev/QA/Prod) Dockerized deployment infrastructure using Nginx reverse proxies and Git CI/CD pipelines.
- **Technical Leadership & Security Standards:** Led sprint planning and technical task allocations for a cross-functional team of 4 developers over 14 months, collaborating directly with PMs, designers, and stakeholders. Enforced strict clean code metrics, code reviews, and enterprise-grade security layers utilizing JWT and multi-factor authentication (2FA).

Education

Istanbul University

Associate Degree in Computer Programming, 2022 to 2026

Izmir Institute of Technology

Bachelor's Degree in Physics (English Program), 2020 to 2025

Links

[GitHub](#), [Personal Website](#)

Languages

Turkish: Native, English: B2