Mojtaba Mahdian Software Engineer

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🪪 Summary

Results-driven Software Engineer with 6+ years of experience architecting scalable, high-performance systems using microservices, Domain-Driven Design, and modern frameworks like Nest.js. Led migrations, workflow automations, and full-stack developments that reduced response times by 50%, costs by 40%, and enhanced system reliability for high-traffic platforms serving millions of requests. Expertise in full-stack development with Node.js, React, Next.js, Kubernetes, Kafka, and automation tools like n8n; passionate about CI/CD pipelines, ORM integrations, workflow automation, and mentoring teams to drive enterprise-grade solutions with measurable business impact.

💼 Experience

Team Lead, ArzDigital   May 2024 – Present

- Architected scalable product delivery using Domain-Driven Design (DDD) and Nest.js framework, integrating ORM tools like Mikro-ORM and TypeORM to enhance system modularity, maintainability, and data handling efficiency with PostgreSQL, resulting in 30% lower maintenarice costs
- Engineered system reliability to achieve 99.9% uptime and optimized response times by 50% through Agile workflows, Prisma for database interactions, asynchronous processing, and n8n workflows for automated tasks like comment/avatar validation, enabling seamless handling of high-volume transactions
- Designed and implemented CI/CD pipelines with Git, Jenkins, and Jira for task management, reducirig deployment time by 0% while mentoring a team of 5+ engineers on microservices best practices, ORM optimizations, and workflow automation for improved code quality and scalability

TypeScript Node.js Nest.js Kubemetes Kafka Redis RabbitMQ Docker Mikro-ORM TypeDRM Prisma n PostgreSQ Jira

- Developed scalable product delivery systems using Domain-Driven Design (DDD) and the Nest.js framework. Leveraged ORM tools like Mikro-ORM and TypeORM with PostgreSQL to enhance system modularity, maintainability, and data handling efficiency, achieving 30% lower maintenance costs.
- Improved system reliability to achieve 99.9% uptime and reduced response times by 50%. Utilized Agile workflows, Prisma for database interactions, asynchronous processing, and automated workflows for tasks like comment/avatar validation to handle high-volume transactions smoothly.
- Created and implemented CI/CD pipelines with Git, Jenkins, and Jira for task management. Reduced deployment time by 20% while mentoring a team of 5+ engineers on microservices best practices, ORM optimizations, and workflow automation, enhancing code quality and scalability using TypeScript, Node.js, Nest.js, Kubernetes, Kafka, Redis, RabbitMQ, Docker, Mikro-ORM, and Prisma.

Software Developer, ArzDigital   November 2022 – April 2024

- Led monolithic-to-microservices migration using Nest.js, reducing system complexity by 40% and improving scalability for high-traffic applications, while integrating TypeORM and Prisma with PostgreSQL to streamline database migrations and queries
- Optimized AFI performance with Redis caching, asynchronous pattems, and Mikro-ORM for efficient data management, achieving 50% faster response times and supporting increased user loads without additional infrastructure costs
- Architected Kubernetes deployment strategy with load balancing, enhancing efficiency by 40% and ensuring high availability through robust message distribution with Kafka, RabbitMQ, and non-based workflows for text generation in market analysis features, assisting users in procise chart interpretations and decision-making

- Designed and deployed a robust Identity Provider (IDP) system with advanced security features, including Multi-Factor Authentication (MFA) with TOTP, SMS, and Email options, password versioning and salting with bcrypt, device fingerprinting and trust logic, rate limiting to prevent brute force attacks, token blacklisting, federated identities for third party integrations. (e.g., Google, Apple), role-based access control (RBAC), comprehensive audit logs for compliance, and real-time security event tracking, ensuring high security standards and seamless integration with microservices while minimizing unauthorized access risks, monitored and managed using Prometheus, ArgoCD, and Rancher

TypeScript Node.js Nest.js Python Kubernetes Kafka Redis RabbitMO Docker Mikro-ORM TypeORM Prisma nan PostgreSQL Prometheus ArgoCD Ranchor

Full Stack Developer, TowerPlan   June 2021 – November 2022
- Engineered a comprehensive monitoring system architecture for mobile towers, incorporating Next.js and React for frontend real-time dashboards, reducing errors by 70% and improving data accuracy by 50% through optimized database queries with MongoDB and server-side processing
- Designed secure API infrastructure and implemented Server-Sent Events (SSE) for real-time user experiences, leveraging React components, Next.js for dynamic UI updates, and MongoDB for scalable data storage, which increased analysis spoed by 35% and enhanced user engagement

Python TypeScript Node.js React Next.js PostgreSQL Redis Kafka Docker GeoServer MongoDB

Backend Developer, Real Estate Organization   April 2020 – May 2021
- Architected administrative portal redesign using DDD principles, integrating high traffic microservices that boosted user satisfaction by 50% and reduced server load by 40% through efficient queuing with Kafka and RabbitMQ
- Engineered performance iniprovements by 40% via database optimizations and asynchronous event handling, minimizing operational costs and enabling scalable growth for real estate management workflows

Node.js TypeScript Python Docker Kalka RabbitMQ Redlis MySQL

Full Stack Developer, Asani   May 2019 – May 2020
- Engineered web application architecture for stores and distributors using React for frontenci and Express.js backend, implementing role-based access controls that increased operational efficiency by 25% and reduced distribution costs by 15% through optimized inventory tracking and event driven pattems.
- Designed real-time communication architecture with RabbitMQ, improving system stability by 30% and supporting side business expansions by automating workflows, which directly contributed to cost savings and faster market response for clients

JavaScript TypeScript Node.js Express.je React MySQ Redis RabbitMQ

Product Manager, Bluray Disc Productions Ltd   July 2008 – November 2018
- Designed production quality control processes and unique disc encryption using irregular sector patterns, reducing defects by 20% and cutting production costs through optimizations and technical guidance.
- Enhanced client workflows with project management tools, boosting satisfaction by 15% and facilitating cost-effective scaling of media production operations.

📚 Licenses & Certifications

Build AI Agents and Chatbots with LangGraph,   September 2025
Linkedin Learning
   Verify Certificate

Learning Go, Linkedin Leamink   August 2025
   Verily Certificate

What Is Generative AI?, Linkedin Learning   November 2024
   Verity Certificate

Advanced Node.js, Linkedin Leaming   October 2024
   Verify Certificate

Advanced TypeScript Concepts, Unkecin Learning   October 2024
   Verify Certificate

Programming for Everybody (Getting Started with Python),   October 2024
University of Michigan
   Verify Certificate

Software Architecture: Domain-Driven Design,   August 2024
Linkedin Learning
   Verify Certificate

Introduction to Data Engineering
   Verify Certificate

🧠 </> Technical Skills

Cloud & DevOps
- Kubernetes
- Kafka
- Docker
- CI/CD
- n8n (Workflow Automation)
- Prometheus
- ArgoCD
- Rancher

Methodologies
- Agile
- Team Leadership
- Mentoring
- Jira (Task Management)

Frontend Development
- React
- Next.js
- Redux (State Management)
- Tailwind CSS
- CSS-S

Architecture
- Systems Design
- Microservices
- Domain-Driven Design (DDD)
- Enterprise Architecture
- Event Storming
- Generics
- Function Overloading
- Decorators

AI & Data
- Generative AI
- LangChain
- LangGraph
- AI Agents & Chatbots
- Data Engineering
- Big Data Engines
- Dete Security & Governance
- AI Workflow Integration

Programming Languages & Frameworks
- TypeScript (Expert)
- JavaScript
- Python
- Node.js
- Go (Golang)
- Nest.js

Backend & Databases
- API Development
- Database Design
- Redis
- RabbitMQ
- Asynchronous Programming
- Data Streaming
- MySQL
- PostgreSQL
- MongoDB
- Mikro-ORM
- TypeORM
- Prisma

🌐 Languages

English
Limited working proficiency
- **Duolingo Score 81**

🎓 Education

Payarne Noor University,   February 2010 – November 2012
Associate's Degree in Business Management