

Hossein Amini

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Summary

Full-stack developer designing server-side architectures, RESTful APIs, and system integrations. Built and shipped production applications using Node.js, NestJS, Python, and PostgreSQL, paired with React.js and Next.js frontends. Focused on clean, maintainable code and measurable performance and reliability gains.

Technical Skills

Backend:	Node.js, NestJS, Express.js, Python
Frontend:	React.js, Next.js, TypeScript/JavaScript (ES6+), TanStack Query, Zustand
Databases & Caching:	PostgreSQL, MongoDB, Prisma, Mongoose, Redis
API & Architecture:	REST, WebSockets, Microservices, System Integration
DevOps & Tools:	Docker, Nginx, Linux (Ubuntu), Git
AI & Testing:	AI API Integration (GenAI), RAG, Jest, pytest

Work Experience

Full-Stack Web Developer

Birjand University of Technology | 2022 — 2025

Collaborated on building enterprise and academic web platforms, translating complex stakeholder requirements into modular backend architectures. Implemented granular role-based access control (RBAC), securing sensitive resources and simplifying cross-departmental user management.

Software Developer

Birjand University of Medical Sciences | 2020 — 2021

Co-developed a high-performance, real-time online competition platform, managing both the interactive frontend components and robust backend infrastructure. Implemented dynamic system logic, real-time user session controls, and instant result-processing features within a highly active environment. Conducted system integration, ensured cross-system interface synchronization, and provided intuitive admin controls for seamless platform maintenance.

Selected Projects

Last Race - Polytechnic University of Turin

Developed a full-stack web application featuring a React.js frontend, an Express.js/Node.js backend, and a secure SQLite database. Implemented stateless session authentication and RESTful APIs optimized for low-latency request handling and real-time state synchronization.

Mandarin Class - Chinese Language Academy

Designed and built a full-stack web platform and custom CMS for a language training institute, managing student records, course catalogs, and instructor workflows. Engineered secure role-based authentication and structured database schemas to ensure reliable data flow and dynamic content delivery.

Mahdi Industrial Group Website & CMS

Built an end-to-end custom web application and CMS from scratch to centralize administrative workflows across multiple organizational departments. Automated manual content updates and data entry pipelines, optimizing daily internal operations.

Education

Master of Science: Computer Engineering

Polytechnic University of Turin | 2024 - Present

Bachelor of Science: Computer Science

Birjand University of Technology | 2020 - 2024

Languages

Persian: Native | **English:** Proficient | **Italian:** Intermediate