Matthew Mostafavi

Senior Software Engineer
AI Engineer | **Product Designer**

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SUMMARY

Over nine years of turning high-stakes systems from fragile into dependable. I have shipped banking, insurance and healthcare platforms in Iran and Malaysia where a lost record or a slow response has a real cost, and along the way I cut response times by 40%, post-release defects by 25% and system downtime by 50%.

Choose me because I own problems end to end: I shape the architecture, write the code, prove it with tests and stay accountable after release. Today I bring that same discipline to AI products: assistants that are measurable and trustworthy, not just impressive demos. I also design the user experience around them so users genuinely benefit.

SKILLS

Programming Languages	Java (Spring Boot), Kotlin (Android), Python, JavaScript (AngularJS), TypeScript (Angular, React), Dart (Flutter)
AI and LLM Systems	LLMs, RAG (hybrid search: dense + sparse), Agent-based systems (LangChain, LangGraph), Prompt Engineering, Spec Driven Development
Backend and APIs	Spring Framework (Boot, MVC, Batch, Data, Security, WebFlux), JPA/Hibernate, Java EE, FastAPI, GraphQL, REST, gRPC, SOAP
Architecture	Microservices, Event-driven design, Spring Cloud (Eureka, Config), API Gateway, Circuit Breaker (Resilience4j), Keycloak (SSO, RBAC)
Storage and Data	PostgreSQL, MySQL, Oracle, MongoDB, Redis, VectorDB (ChromaDB), Amazon S3, Kafka, RabbitMQ
Infrastructure	AWS, Docker, Kubernetes
IaC and Automation	Terraform, Ansible, Bash, PowerShell, GitLab CI, Jenkins, CI/CD
Monitoring and Observability	Prometheus, Grafana, LLM Monitoring
Testing	Java: JUnit 5, Mockito, Cucumber (BDD), Spring Test. Python: pytest. JS/TS: Jest, Jasmine/Karma, Cypress. Kotlin: JUnit, MockK, Espresso. Dart: flutter_test
Engineering Practices	TDD/BDD, SOLID, Design Patterns, Performance Optimization, Legacy Refactoring, Agile/Scrum, Git, Maven, Jira
Product Design	User-centered design, UX flows, wireframing and prototyping
Operating Systems	Linux (Ubuntu, CentOS, Kali, Arch), Windows

WORK EXPERIENCE

Senior Software Engineer — **Sep 2025 to May 2026**
Hati Software Company | Remote, Malaysia
Healthcare IT company delivering hospital platforms across the ASEAN and APAC regions

- Architected the secure, cloud-based hospital health platform on Spring Boot microservices and AWS, leading it from design to final deployment.
- Unified identity and access with Keycloak (SSO and RBAC), defining separate access levels for doctors, nurses and hospital administrators.
- Implemented patient record updates on an event-driven Kafka architecture and isolated external EHR calls behind circuit breakers, so partner outages never cascade into the platform.
- Achieved zero data loss in critical patient data streams by combining idempotent Kafka producers with circuit breaker retry policies.

Senior Java Developer **Jun 2024 to Aug 2025**
Sadad Information Corporation | Tehran, Iran
Technology arm of Bank Melli Iran, the country's largest bank, with networks handling billions of transactions a year

- Developed reactive microservices (Spring WebFlux) for bank account management, keeping real-time processing stable at national bank scale.
- Engineered Spring Batch pipelines for high-volume ZIP/CSV financial data and tuned job scheduling to consume fewer resources.
- Cut SOAP API response times by 40% by decoupling WSDL-generated services and shrinking the project structure.
- Standardized 95%+ test coverage (JUnit, Mockito) and full JavaDoc for critical banking transactions.
- Modernized legacy modules with abstraction, generics and design patterns, lowering long-term maintenance cost through greater modularity.

Senior Java Developer **May 2022 to May 2024**
Tamin | Tehran, Iran
ICT and management consultancy building enterprise insurance systems, affiliated with Iran's Social Security Organization (over 40 million insured people)

- Built and launched an innovative workshop insurance management system, lifting operational efficiency by 20% and customer retention by 15%.
- Transformed the platform into event-driven microservices, decoupling services and reducing post-release defects by 25%.
- Reviewed and optimized the codebase, improving performance and maintainability by 60%.
- Diagnosed complex technical problems with cross-functional teams, cutting system downtime by 50%.
- Established 95%+ unit test coverage, giving the whole team a dependable release safety net.

Senior Java Developer **Feb 2020 to May 2022**
PergasTeb | Tehran, Iran
Manufacturer of skin and hair health products

- Designed an in-house code generator that automated repetitive code and cut development time by 70% across the engineering team.
- Delivered RESTful APIs that drove a 30% rise in user engagement and a 40% expansion in system capabilities.
- Redesigned the data model and entity relationships, improving data management efficiency by 40% and data accuracy by 25%.
- Laid the groundwork of shared infrastructure and tooling that improved code maintenance efficiency by 40%.
- Mentored junior developers through code reviews and knowledge sharing, shortening their ramp-up time on the project.

Mid-level Full-Stack Developer **Oct 2017 to Feb 2020**
Hamfekran Information Technology Group | Tehran, Iran
IT group building urban systems and platforms, in collaboration with a French engineering team

- Brought the front end and back end of a medical system to production with Java and Angular, earning strongly positive user feedback.
- Connected the Java APIs to Python and Node.js services alongside the French team, improving system functionality by 35%.
- Customized and maintained the REST APIs of every node, cutting response time by 20% and lifting overall performance by 15%.
- Shaped the system's scalability strategy, raising capacity and performance by 25%.

PROJECTS

Matthew Platform | **matthew-platforms.ir** **May 2026 to Nov 2026**
Personal, custom, intelligent full-stack products; designed, built and hosted end to end by me

- Created several intelligent full-stack platforms across different domains, owned the product flow, API and UI, and hosted them all on an Ubuntu VPS with my own domain and subdomains.

EDUCATION

Bachelor's degree in Industrial Engineering **2009 to 2014**
Semnan University | Systems optimization, process efficiency and project management

LANGUAGES

English Professional

German (Deutsch) and French Beginner

"In a world of uncertainty, full of unproven facts, we look to the sun to find truth, with all rocks and mountains ahead of us."