Milad Sadeghi
Java Backend Developer

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Work Experience

Java Backend Developer
BehPardaz Jahan Co.   *Oct 2024 - Present*

- Designed a standardized **error handling system** by implementing a **custom error response** class, **custom authentication entry point** and a **global exception handler** in spring boot backend to ensure consistent and **detailed error propagation** to an angular frontend. This solution improved frontend error resolution, **reduced debugging time** and **enhanced security** by providing **structured error messages**.
- Implemented **real-time configuration updates** by integrating **Apache Kafka** and **Debezium** to **monitor database changes** in a configuration table, **automatically synchronizing updates** across the backend. This solution **eliminated manual restarts**, **reduced configuration drifts** and **improved system reliability** by ensuring instant propagation of critical changes.
- Optimized **Redis cache management** by leveraging **java virtual threads**, **Callable** for async execution, **spring data jpa** for database interactions and **RedisTemplate** to dynamically update time-to-live duration. This solution **improved cache efficiency** by reducing stale data, **enhanced scalability through non-blocking operations** and **cut latency by 30%** in high-throughput scenarios.
- Modernized **authentication** by transitioning from a **stateful MVC** architecture to a **stateless JWT-based** system, enabling seamless **decoupling** of the angular frontend from the spring boot backend. This redesign **improved scalability**, **simplified session management** and enhanced security while ensuring smoother integration and **faster performance** for the frontend.
- Identified and **optimized inefficient methods** by applying **advanced algorithms and data structure** design techniques, resulting in a **20%** overall **performance boost**. This enhancement **reduced processing times**, **improved resource utilization** and **elevated the system's responsiveness** under high-load conditions.
- Designed and implemented a **unified exception handling system** to seamlessly manage both **built-in** and **custom business exceptions**, improving **error clarity** and **maintainability**. This scalable solution **reduced debugging time** and **enhanced system reliability** through consistent and **actionable error responses** across the application.
- Conducted weekly **data structures and algorithms training sessions** to **enhance the team's problem solving skills** and **algorithmic thinking**. This initiative improved **code efficiency**, **optimized performance-critical components** and fostered a culture of continuous learning and technical excellence.
- Translated and published **English technical tutorials** to Persian, making **cutting-edge software engineering knowledge** more accessible to non-native speakers. This initiative **accelerated the learning curve** for fellow engineers, **improved team competency** and **fostered knowledge sharing** in the local team community.
- **Resolved undocumented project components** by collaborating with test and analysis teams to **produce accurate technical documentation**, **eliminating knowledge gaps**. This effort improved **maintainability**, **reduced onboarding time** for new developers and **minimized risks for unclear system behavior**.
- **Partnered with the infrastructure team** to design and implement robust **GitLab CI/CD pipelines**, automating **build, test and deployment process**. This collaboration reduced manual errors, **accelerated release cycle by 40%** and ensured consistent delivery quality across projects.
- Onboarded new team members by **clearly explaining project architecture** and **simplifying complex technical concepts**, enabling faster ramp-up times. This approach reduced their learning curve, **improved early productivity** and **strengthened team cohesion** through effective knowledge transfer.
- Demonstrated **exceptional performance** during the 3-month trial period, **earning a talent fee bonus** for exceeding expectations in **technical contributions** and **team collaboration**. This recognition highlighted my **immediate impact**, **adaptability** and **value-added skills** to the organization.

Senior Frontend Developer
SwiftSky Co.

Sep 2021 - Mar 2024

- Led a team of three engineers in successfully **migrating** a complex codebase to **TypeScript**, **enhancing type safety** and **long-term maintainability**. This modernization effort **reduced runtime errors** and significantly improved developer productivity through better tooling support.
- **Mentored** and **supervised** 2 junior developers through hands-on guidance and **code reviews**, accelerating their technical growth and productivity. This leadership initiative **improved their code quality** and enabled them to independently **deliver features** ahead of schedule.
- Partnered with design and product teams to **identify high-impact features**, **prioritizing development** efforts that **boosted user engagement**. This **cross-functional collaboration** aligned technical execution with business goals, directly **enhancing product value** and customer satisfaction.
- Dramatically **improved code reliability** by expanding test coverage from **60%** to **87%** through comprehensive unit tests using **Jest** and **React Testing Library**. This initiative **reduced production bugs** and increased developer confidence when implementing new features.

Frontend Developer
SwiftSky Co.

Sep 2019 - Aug 2021

- Boosted web app **performance** by **30%** through strategic optimizations including **API call reduction**, **local storage caching**, and **React component memoization**. These enhancements **decreased load times**, improved user experience, and **reduced server costs** by **minimizing unnecessary network requests**.
- **Optimized frontend performance** by reducing the initial bundle size by **48%** through **lazy loading** and **code splitting** techniques, resulting in a **40%** faster loading time. This enhancement significantly **improved user experience** and **SEO** rankings while decreasing bounce rates.
- Streamlined testing processes by implementing a **CI/CD pipeline** for **Cypress** on **GitHub Actions**, enabling automated cross-browser testing that **reduced testing time**. This optimization **accelerated release cycles** while maintaining high test coverage and **application reliability** across all supported browsers.

Open Source Developer
GitHub

Jan 2018 - Sep 2019

- [Implemented linear discriminant analysis algorithm from scratch](#)
- [Converted generator object to a list object](#)
- [Implemented khatri-rao matrix product algorithm](#)
- [Refactored all .py files in nasa mars helicopter flight program](#)
- [Implemented neural network of optimized u-net for brain tumor segmentation paper](#)

Skills

Main:	Java Spring Boot Spring Data(JPA-Redis) Spring AOP Spring Security OracleDB Apache Kafka Debezium
Other:	Multi-Threading RestAPI JWT OAuth2 Lombok Code Review Git Linux Algorithms Data Structures
Deploy:	Gitlab CI Docker Maven
Test:	JUnit Mockito Postman
Soft:	Leadership Mentorship Communication Collaboration Team Work

Volunteer Experience

Algorithms & Data Structures Instructor   *Feb 2024 - Sep 2024*

- Explaining and solving JavaScript algorithmic challenges on [DevAcademy frontend community](#) meetings(+2.4K developers) every week

Software Programming Instructor   *Oct 2023 - Jun 2024*

- Taught and mentored 5 junior/mid-level frontend developers on the TypeScript language through a private Discord server.

Content Creator   *Jan 2019 - Present*

- Wrote and published technical blog posts so far about Java, JavaScript, React, TypeScript, Data Structures and Algorithms on two platforms: [HashNode](#) and [Virgool](#).

Certificates

Docker Basics   *Oct 2022*

- Docker Basics Online Course - Issued By <u>MaktabKhooneh</u> - Score: 95 out of 100

Awards

Hacktoberfest   *Oct 2019*

Contribution on open source projects - Issued by Intel, GitHub

Hacktoberfest   *Oct 2020*

Contribution on open source projects - Issued by Intel, GitHub

Hacktoberfest   *Oct 2021*

Contribution on open source projects - Issued by Intel, GitHub

Hacktoberfest   *Oct 2023*

Contribution on open source projects - Issued by Digital Ocean, Appwire