

HIGOR MARTINS

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SUMMARY

Software Developer experienced in developing and optimizing scalable enterprise web applications focused in NodeJS, ReactJS, JavaScript, and TypeScript. Expertise encompasses the entire project lifecycle, from initial requirements analysis to design, code implementation, testing, and ongoing maintenance.

SOLID Principles • Test Driven Development (TDD) • Object Oriented Programming (OOP) • Microservices • Event-Driven Development • Domain-Driven Design (DDD)

PROFESSIONAL EXPERIENCE

pureIntegration

Software Engineer

Reston, Virginia, United States

February 2024 – Present

- Extended a flexible data ingestion system in Node.js by implementing additional parsing logic to support new sports data such as Rugby and MotoGP.
- Enhanced the data ingestion pipeline to handle new sports-specific data formats, transforming and storing them into the Neo4j graph database.
- Developed flexible TypeScript-based parsers to ensure accurate transformation and validation of new sports data before ingestion into the Neo4j database, minimizing errors and inconsistencies.
- Modeled new nodes and relationships in the existing Neo4j database to accurately represent complex sports data structures, such as player statistics, match results, and team standings while maintaining consistency with the pre-existing schema.
- Optimized Cypher queries for list fetching, improving the performance of data retrieval by fine-tuning query patterns, reducing query execution time, and enhancing scalability for large datasets.

Devires Technology

Backend Developer

São Paulo, Brazil (Remote)

July 2020 – January 2023

- Created an asynchronous communication architecture among 5+ microservices using Apache Kafka, ensuring decoupled system operations with real-time data processing capabilities.
- Developed a serverless function triggered by AWS S3 events to handle bulk data processing and optimize data ingestion.
- Architected and implemented a robust Node.js automation framework, integrating Apache Kafka, Amazon SNS, and file generation, resulting in a 50% increase in real-time data dissemination and a 30% improvement in process efficiency.
- Built BFFs (Back-end for front-end) using NodeJS with TypeScript and GraphQL (Apollo/Yoga) to serve a flexible and efficient query system for a client application, reducing data over-fetching and speeding up load times by 40%.
- Optimized Restful APIs in NodeJS, identifying and resolving memory leaks and instability issues in production, resulting in a 50% reduction in customer support issues and improved overall system performance.
- Generated a serverless architecture using AWS Lambda and Node.js, reducing infrastructure costs by 28.57% and ensuring auto-scaling based on demand without manual intervention.
- Leveraged CI/CD quality using Jest to write comprehensive unit and integration tests, achieving a test coverage of over 90% and making the application more robust against potential bugs.

Brazilian Navy

Full Stack Developer

São Pedro da Aldeia, Rio de Janeiro, Brazil

August 2018 – August 2020

- Led a strategic overhaul by migrating a legacy JEE6 system to Spring Boot, reducing server load by 30% and enhancing operational efficiency, while simultaneously spearheading the development of ReactJS front-end interfaces, which improved system responsiveness and user engagement.
- Optimized web performance by implementing ReactJS memorization and caching, achieving a 25% increase in page load speed, resulting in a measurable enhancement in user satisfaction and a 20% uptick in user retention rates.
- Developed reporting services that provided key performance insights, leading to a 15% improvement in decision-making efficiency for senior management and a 10% reduction in resource expenditure.
- Advanced the stability of a complex single-page application by refining state management with Redux and Context API, which led to a 50% decrease in load times and a 40% reduction in data synchronization errors.
- Architected and sustained high-performance API solutions that enhanced data integration capabilities by 35%, ensuring robust system interoperability and supporting a 25% increase in service delivery speed.
- Demonstrated versatility by fluidly navigating between front-end and back-end roles within cross-functional teams, contributing to a 20% increase in project delivery speed and a 15% improvement in code quality through the adoption of new technologies and practices.

EDUCATION

Maharishi University of Management

Master's, Computer Science

January 2023 - February 2025

Estacio de Sá University

January 2017 - December 2020

SKILLS

Skills: JavaScript, TypeScript, Node.js, Express.js, MongoDB, Postgres, Redis, AWS (S3, SNS, SES, Lambdas), Apache Kafka, Docker, GraphQL, Jest, JIRA, Git, HTML/CSS, Java, MySQL, NoSQL, Agile, Mocha, Postman, React.js, Redux, REST APIs, RabbitMQ, Web Development, Software Testing, Google Cloud Platform (GCP, Pub-Sub, Cloud Storage), Cypher Query Language, Neo4J.