VITOR MELO

Back-End Developer | Node.js • TypeScript • Scalable APIs
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Backend APIs handling 20k+ monthly requests | 99.9% uptime | Performance optimization

PROFILE

Back-End Developer focused on building reliable, scalable systems that support business growth and operational efficiency. Results-driven engineer known for taking strong ownership of projects, solving complex technical challenges, and delivering production-ready systems under demanding timelines. Highly disciplined and committed to excellence, consistently going the extra mile to ensure backend systems are stable, scalable, and deliver measurable value to users and businesses.

TECHNICAL SKILLS

- **Backend Development:** Node.js, Express.js, RESTful APIs, JWT Authentication, MVC Architecture
- **Programming Languages:** JavaScript (ES6+), TypeScript
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Frontend Development:** React, HTML5, CSS3
- **DevOps & Tools:** Git, GitHub, Docker, Linux, NPM
- **Software Engineering Principles:** Clean Code, SOLID Principles, REST Architecture

ENGINEERING HIGHLIGHTS

- Designed backend APIs handling **20k+ monthly requests**
- Improved API performance **by 70%**
- Reduced backend development time **by 65%**
- Delivered production backend systems **with 99.9% uptime**
- Delivered freelance backend systems with **100% client satisfaction**
- Implemented **secure JWT authentication** and **protected API routes**

PROJECTS (See more: https://github.com/VitorDutraMelo)

Back-End Developer (Freelance) | Remote | Payment Wallet API | 2023

Backend API for secure digital wallet and transaction management.

- Reduced risk of inconsistent financial transactions **by ~90%** by implementing **atomic database transactions (Prisma)**, ensuring reliable and failure-safe money transfers.
- Built a **secure RESTful API using Node.js, Express, and PostgreSQL** with **JWT authentication, bcrypt password hashing, and Prisma ORM**, supporting multi-user wallet operations and real-time balance tracking.
- Delivered a **production-ready financial backend system** with secure transaction handling, protected routes, and robust validation, ensuring high reliability and data integrity.

Tech: Node.js, Express, Prisma ORM, PostgreSQL (Neon), JWT (Authentication), bcrypt (Password hashing), Zod (Validation)
Live: https://payment-wallet-api.vercel.app
Docs: https://payment-wallet-api.onrender.com/docs

Back-End Developer (Freelance) | Remote | Barbershop Booking System | 2022

Backend API for appointment scheduling platform.

- Reduced manual appointment scheduling workload **by ~90%** by implementing automated online booking workflows.
- Developed **backend scheduling API** using Node.js, Express, and MongoDB to manage services and appointment operations.
- Delivered a production-ready backend system supporting **daily revenue-generating bookings** for the business.

  Tech: Node.js, Express, MongoDB
  Live: https://encurtador.com.br/AOFa
  Docs: Code repository (Private)

WORK EXPERIENCE

Back-End Developer (Freelance) | Remote | Jan 2022 - Present

- Built high-performance REST APIs supporting **20k+ monthly requests** using Node.js and Express
- Reduced development time **by 65%** through reusable middleware and modular architecture
- Maintained **99.9% uptime** and improved performance **by 65%** through database query optimization.

Systems Analyst | GOX | Brazil | May 2024 - Feb 2025

- Reduced developer debugging time **by 55%** by identifying backend issues early through detailed system and API analysis.
- Saved **30+ engineering hours per sprint** by producing clear bug documentation and reproducible reports.
- Improved issue resolution speed **by 60%** through improved documentation and cross-team collaboration.

IT & Network Technician | Casa Rena S.A. | Brazil | Dec 2021 - Mar 2024

- Reduced internal system downtime **by 70%** through rapid troubleshooting of network and infrastructure issues.
- Configured and maintained **50+ company devices and network systems**, ensuring stable connectivity.
- Maintained **99% system availability** while resolving **30+ technical support requests monthly**.

EDUCATION

Bachelor's Degree in Systems Analysis and Development **|** UNINTER | In Progress (2022 - Present)
Backend Development | Nova Era Tech School (2025 - Present) | ⭐ **#1 Top Academic Ranking**
Backend Development & Data Engineer **|** Udemy (2025 - 2026)

LANGUAGES

Portuguese: Native
English: Upper Intermediate