

MATHEUS PAVIN PEDROSO

Senior Backend Software Engineer

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Summary

Backend-focused Software Engineer with 10+ years of experience designing and delivering scalable, low-latency backend systems across iGaming, travel, media streaming, healthcare, and e-commerce. TypeScript/Node.js specialist with hands-on Python experience, building end-to-end solutions on SQL/NoSQL databases. Strong track record of driving performance improvements, leading cloud migrations across AWS, Azure, and GCP, and architecting reliable, serverless, microservices-based systems in high-load, mission-critical environments.

Professional Experience

BrainRocket

Lisbon, Portugal

Senior Backend Engineer

Jun 2025 – Present

- Built and launched a new paid game product, overseeing payment flows, multi-currency handling, and sensitive user data protection.
- Developed backend services from scratch using Node.js/NestJS, integrating third-party APIs and architecting high-load MySQL data layers for a real-money gaming platform with strict low-latency requirements.

KLM Royal Dutch Airlines

Amsterdam, Netherlands

Senior Backend Engineer

Jun 2024 – Jun 2025

- Led migration of critical airline systems from on-premises infrastructure to Microsoft Azure, significantly improving scalability and operational efficiency.
- Rewrote legacy JavaScript systems, some untouched for over 7 years, from scratch in TypeScript with comprehensive automated test coverage, modernizing core airline operations infrastructure.
- Streamlined CI/CD pipelines, with pre-checks, accelerating time-to-market for new features.

Buynomics GmbH

Cologne, Germany

Senior Backend Engineer

Jan 2024 – Jun 2024

- Architected scalable and reliable backend systems in Node.js and Python, guiding projects from initial design through to production deployment; Node.js services handled core business calculations while Python powered the AI-driven pricing intelligence engine.
- Designed and implemented a Redis-based caching layer in front of the AI pricing engine, eliminating redundant calculations and reducing unnecessary compute(AI) costs.
- Collaborated cross-functionally to design and implement robust REST APIs serving core pricing intelligence features.

Joyn GmbH/ProSiebenSat.1

Munich, Germany

Senior Backend Engineer

Oct 2021 – Jan 2024

- Designed and developed a fully serverless microservices architecture for streaming services using AWS Lambda orchestrated with Step Functions, with emphasis on data security and cost efficiency; select Lambdas were built in Python for metadata validation.
- Managed ingestion pipelines for media objects, ensuring seamless processing into the streaming platform at scale.

Ideamed GmbH (KIRINUS Health)

Munich, Germany

Senior Backend Developer

Oct 2020 – Oct 2021

- Engineered secure, scalable software for the management of highly sensitive medical data, ensuring compliance with strict privacy standards.

- Executed cloud migration of production systems to a Germany-based Google Cloud provider.
- Created and automated infrastructure deployment using Kubernetes, Terraform, and GCP.
- Supported frontend, backend, and DevOps teams with architecture guidance and deployment tooling.

Freachly

Berlin, Germany

Senior Full-Stack Developer

Jun 2020 – Oct 2020

- Built, tested, and deployed scalable and highly available software products using Node.js and Google Cloud Platform.
- Worked with MongoDB and data science tooling in a large-scale data aggregation platform.

Global Savings Group (Cuponation)

Munich, Germany

Senior Full-Stack Developer

Dec 2018 – May 2020

- Built and maintained scalable, high-availability web products with server-side rendering using Node.js and Nunjucks.
- Improved site performance to deliver the fastest possible experience to users across multiple international markets.
- Collaborated with engineering teams to identify and resolve software defects, improving overall product quality.

Gennera Consultoria e Desenvolvimento de Software

Florianópolis, Brazil

Full-Stack Engineer

Jan 2015 – Dec 2018

- Developed and maintained both greenfield and legacy systems using Node.js, TypeScript, Angular (1 and 4), and PostgreSQL.
- Built a REST API to migrate legacy Java systems, enabling a clean transition to modern infrastructure.
- Applied TDD practices (Mocha) to maintain high code quality and test coverage across projects.

Doutor-ie: Automotive Intelligence

Florianópolis, Brazil

Automotive Engineer Project Manager

Jan 2007 – May 2013

- Led cross-functional teams in planning and executing automotive electronics projects, ensuring delivery on time and within scope.
- Maintained stakeholder communication and ensured compliance with industry standards and quality assurance protocols.
- Created ASE certified manuals for automotive repair solutions.

Education

B.Sc. in Information Science (2017) | Unisul – Universidade do Sul de Santa Catarina

B.Sc. in Library Science (2013) | UFSC – Universidade Federal de Santa Catarina

Technical Diploma – Automotive Engineering (2009) | IFSC – Instituto Federal de Santa Catarina

Skills & Expertise

Programming Languages: JavaScript, TypeScript, Python, Java

Frameworks & Libraries: Node.js, NestJS, React.js, AngularJS

Databases: PostgreSQL, MySQL, MongoDB, Redis, NoSQL

Cloud & Infrastructure: AWS, GCP, Azure, Docker, Kubernetes, Terraform, Linux, Git

Security: OAuth, Authentication & Authorization

Practices & Methodologies: REST APIs, Microservices, TDD, Design Patterns, Scrum, Agile, DevOps

Languages: Portuguese (Native), English (Fluent), German (Basic), Spanish (Basic)

Courses

JavaScript Masterclass - AgileCode

Crash Course on Python - Google Academic

The Nuts and Bolts of Machine Learning - Google Academic