

Jackson Magnabosco

Senior Software Engineer with 9+ years of experience building high-performance and scalable solutions using Javascript, NodeJS, Typescript, NestJS, React and cloud technologies.

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WORK EXPERIENCE

Covetrus

Product Engineer

Apr. 2026 – Present | Remote - USA

Freelance

Working with Covetrus, a global veterinary technology company serving more than 100,000 customers and 17,000 veterinary practices through the Covetrus Platform. Contracted via Oowlish as a Product Engineer with a backend focus, applying AI-first software engineering practices to rapidly deliver scalable product solutions.

- Designed and implemented scalable backend services using Java, Node.js, and TypeScript while contributing to frontend development with React and overall system architecture.
- Built end-to-end proof of concepts from product ideas, translating business requirements into production-ready solutions.
- Developed AI-assisted engineering workflows using GitHub Copilot, Cursor, and LLM agents to accelerate implementation while maintaining high code quality.
- Improved testing strategies and CI/CD processes to support faster and more reliable software delivery.
- Collaborated closely with Product, Design, and Engineering teams to deliver customer-focused features with high autonomy.

Some of the technologies and services utilized:

- Programming Languages: Java, JavaScript, TypeScript
- Application server: Spring Boot, Node.js, React, Next.js
- Artificial Intelligence: GitHub Copilot, Cursor, LLM Agents, ChatGPT
- DevOps: CI/CD, GitHub Actions
- Agile methods: Scrum, Kanban
- General tooling: System Design, Test Automation, Git

Tempo

Senior Software Engineer

May 2025 – Apr. 2026 | Remote - BR

Contract

Worked on KORA, an enterprise Field Service Management (FSM) platform developed by Tempo to modernize post-purchase service operations through an API-first, event-driven architecture serving major retailers and manufacturers.

- Designed and developed scalable REST APIs and microservices using javascript, Java and Spring Boot following Hexagonal Architecture, DDD, and SOLID principles.
- Implemented event-driven services using Kafka, RabbitMQ, and Amazon SQS to support highly scalable distributed workflows.
- Built resilient integrations with ERP, OMS, marketplaces, and third-party providers while applying resilience patterns including Circuit Breakers, Sagas, retries, idempotency, and distributed locks.
- Optimized data storage using PostgreSQL, MongoDB, Redis, and SQL/NoSQL technologies.
- Improved observability and deployment pipelines using AWS, Kubernetes, Docker, Terraform, OpenTelemetry, Grafana, and Prometheus while collaborating closely with Product, Infrastructure, and Data Engineering teams.

Some of the technologies and services utilized:

- Programming Languages: Java, Javascript, Typescript
- Application server: Spring Boot, nodejs, nestjs, react, nextjs
- Messaging System: Kafka, RabbitMQ, Amazon SQS

- Databases: PostgreSQL, MongoDB, Redis (ElastiCache)
- Cloud: AWS (Lambda, EventBridge, IAM)
- Infrastructure: Docker, Kubernetes (EKS), Terraform, AWS CDK
- Monitoring: Grafana, Prometheus, CloudWatch, ELK, OpenTelemetry
- Security: OAuth2, JWT
- API Documentation: OpenAPI / Swagger
- Agile methods: Scrum, Kanban
- General tooling: Hexagonal Architecture, DDD, SOLID, Sagas, Circuit Breakers

Mercor, AI Research Partner (via Freelance)

Senior Software Engineer (Coding Agent Experience)

Nov. 2025 – Present

Remote - San Francisco, CA

Contributing to one of the world's leading AI research organizations through Mercor, improving AI-driven code generation systems used globally by developers. Focused on evaluating, benchmarking, and enhancing coding agent performance across real-world software engineering tasks.

- Reviewed and validated AI-generated code for correctness, efficiency, scalability, and adherence to engineering best practices
- Analyzed multiple model outputs to identify optimal solutions, performance gaps, and failure patterns
- Authored detailed technical feedback helping refine next-generation AI coding assistants
- Improved training data quality through systematic evaluation pipelines
- Flagged edge cases and contributed to continuous improvements in model reliability and reasoning
- Applied expertise across TypeScript, JavaScript, Python, NestJS, React, Express, FastAPI, React, PostgreSQL, MySQL, MongoDB, and Redis
- Utilized AWS, Docker, and CI/CD workflows to reproduce and benchmark model outputs
- Ensured high standards of code quality, architecture, and testing methodologies aligned with industry best practices

Superbid Exchange

Senior Software Engineer

Jun. 2022 – Oct. 2025

Remote - Brazil

Working within Latin America's largest digital auction transaction platform, developed 18 online auction applications with scalable microservice architectures supporting thousands of concurrent users.

- Designed and optimized RESTful APIs and microservices using Typescript and NestJS leveraging Elasticsearch and Redis for performance, reducing API response times by 30%
- Built real-time auction systems with NestJS, TypeScript, Socket.io, Redis, AWS SDK, JWT, and WebSocket for live bidding functionality
- Implemented event-driven architecture with RabbitMQ and Kafka, improving fault tolerance and scalability
- Developed comprehensive CI/CD pipelines with Jenkins and GitHub Actions, enabling automated, zero-downtime deployments
- Created customer communication APIs handling daily emails using NestJS, MongoDB and Nodemailer
- Built AI integration backend-for-frontend systems in NestJS, securely connecting frontend to AI services
- Applied Clean Architecture and SOLID principles ensuring long-term maintainability
- Achieved 85% test coverage with Jest, SuperTest.
- Increased developer productivity by 20% using AI-powered tools (GitHub Copilot Pro+, ChatGPT Pro, Cursor Ultra)
- Developed and maintained cloud-native SaaS applications serving thousands of concurrent users across Latin America
- Built reusable UI components and internal design systems in React, improving consistency and reducing development time across apps
- Integrated backend microservices with React frontends using BFF patterns

Led strategic initiatives at one of Brazil's largest fashion retail companies, focusing on marketplace integrations and revenue-driving solutions.

- Developed centralized product catalog integration managing information, pricing, and stock across multiple marketplaces, directly increasing revenue and expanding digital presence
- Built scalable backend services with NodeJS, Typescript, and React, integrating platforms like AnyMarket and VTEX
- Designed robust CI/CD pipelines on Azure DevOps for reliable releases
- Improved system observability with Grafana and ElasticSearch, reducing incident response time by 40%
- Modernized legacy systems, enhancing performance and maintainability
- Delivered features in Agile teams using microservices architecture
- Conducted technical interviews and assessed candidates for team growth
- Applied Clean Architecture and SOLID principles ensuring long-term maintainability
- Achieved 80% test coverage with Jest, SuperTest.
- Created React frontends for internal dashboards, enabling real-time business insights for logistics, pricing, and marketplace operations

EDUCATION

Metropolitan College
Database Administration

Postgraduate Program 2023 – 2024
Ribeirão Preto, SP

Metropolitan College
Software Engineering

Postgraduate Program 2022 – 2023
Ribeirão Preto, SP

Regional Integrated University of Alto Uruguai and Missions
Computer Science

Bachelor 2016 – 2020
Erechim, RS

CERTIFICATIONS

- EF SET English Certificate (B2 Upper Intermediate) EF SET B2+. 2025
- AWS Certified Cloud Practitioner (CLF-C01), 2023
- Oracle Cloud Infrastructure Certified Foundations Associate (OCI-2023), 2023
- Wevo Technical Certification Basic (ID: 9386593), 2022
- Veracode Certified Advisor, 2021
- Scrum Foundations Professional Certificate (Certiprof, ID: 53604064), 2020
- Scrum Fundamentals Certified (SCRUMstudy, ID: 821416), 2020

SKILLS

- **Development:** JavaScript, Node.js, TypeScript, NestJS, React, Java, Python, Dart, C, Delphi/Lazarus/Free Pascal, Spring Boot, GWT, Selenium.
- **API Design:** RESTful APIs, Event-Driven Architecture, Microservices, WebSocket/Socket.io, Swagger/OpenAPI Documentation, SaaS .
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, Compute Services), Oracle Cloud, Docker, Kubernetes, RabbitMQ, Redis, ElasticSearch, Kibana, Solr, OpenSearch, New Relic, Rundeck, Rancher, OpsGenie, DataDog, Zabbix, Grafana.
- **Databases:** Oracle, SQL Server, MySQL, PostgreSQL, MongoDB, Firebase, CouchDB.
- **Testing:** Jest, SuperTest, TDD, Integration Testing, junit, Mockito, k6 (Performance/Load Testing).
- **DevOps:** Jenkins, GitHub Actions, Azure DevOps, Git (including GitHub, GitLab, CodeCommit, Bitbucket), CI/CD Pipelines, DevSecOps Practices.
- **AI Tools:** GitHub Copilot Pro+, ChatGPT Pro (GPT-4/GPT-5), Cursor Ultra, Grok, Manus, DeepSeek.
- **Methodologies:** Agile (Scrum, Kanban), SOLID, Clean Code/Architecture, TDD, Design Patterns, Object-Oriented

Programming (OOP).

- **Other Tools & Skills:** Postman, Insomnia, Jira, Confluence, Slack, Teams, Google Chat, Gather, VTEX, AnyMarket, Wevo, Flutter (Mobile Development), Kotlin, PyTorch (Neural Networks/Deep Learning), Webpack, Chrome DevTools, HTTP Protocols, LGPD Compliance, IoT Development, Technical Interviewing & Candidate Assessment.

TEACHING EXPERIENCE

Regional Integrated University of Alto Uruguai and Missions

Jul 2024 – Aug 2025

Professor of Computer Science

Erechim, RS

- Taught courses such as Interface Design, Web Development, Special Topics in Computing I & II, Professional Ethics, Computational Thinking.

Udemy

Jan 2025 – Present

[Course Instructor](#)

Remote

- Designed online courses in Programming, Web Development, Database Administration, Interface Design, Data Mining, IoT, and Ethics.
- 4.5M+ minutes watched, 340+ active students, 1,500+ minutes of published content.

YouTube

Jan 2025 – Present

[Content Creator](#)

Remote

- Produced educational content with over 1125+ subscribers, 250,000+ total views.

PUBLICATIONS

Brazilian Journal of Technology, Vol. 8, No. 3

Aug 2025

[This article](#) introduces the Velha Guarda mobile app for real-time monitoring of microbrewery production, using ESP8266, Flutter, Firebase, and Scrum, enhancing safety and efficiency.