Jackson Magnabosco

Senior Software Engineer with 8+ years of experience building high-performance and scalable solutions using Javascript, NodeJS, Typescript, NestJS, React and cloud technologies.

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WORK EXPERIENCE

Mercor, AI Research Partner (via Freelance)   Nov. 2025 – Present
Senior Software Engineer (Coding Agent Experience)   *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   Jun. 2022 – Oct. 2025
Senior Software Engineer   *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, improving security and performance

Globalsys (Arezzo&Co / Reserva)   **Aug. 2022 - Dec 2024**
Senior Software Engineer   *Remote - Brazil*

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

Compass.uol   **Jan 2020 – Sep 2021**
Intermediate Cloud & DevSecOps Engineer   *Remote - Brazil*

Contributed to enterprise-level cloud projects by developing scalable backend services, automating performance testing, and securing deployment pipelines through DevSecOps practices, improving performance, security, and delivery speed across multiple environments.

- Built scalable backend services with NodeJS and Typescript
- Created automation scripts for load and stress testing, evaluating system performance and stability under extreme conditions
- Automated performance testing with Node.js and k6 on AWS
- Maintained secure CI/CD pipelines with Jenkins
- Supported compliance and scalability through DevSecOps practices

Armários Inteligentes (Smart Lockers)   **Oct 2018 – Oct 2019**
Internal Software Developer   *Erechim, RS*
- Developed and consumed RESTful APIs in NodeJS/Typescript for IoT-based smart locker solutions
- Worked with Arduino programming in C for IoT hardware integration
- Contributed to technical documentation and implemented automated testing for reliability
- Developed mobile applications using Flutter and Dart

EDUCATION

Metropolitan College   **Postgraduate Program 2023 – 2024**
Database Administration   *Ribeirão Preto, SP*

Metropolitan College   **Postgraduate Program 2022 – 2023**
Software Engineering   *Ribeirão Preto, SP*

Regional Integrated University of Alto Uruguai and Missions   **Bachelor 2016 – 2020**
Computer Science   *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.