

# Zaú Júlio

Tech Lead | Senior Software Engineer | Infrastructure | IA Enthusiast  
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## PROFESSIONAL PROFILE

Tech Lead and Software Engineer with extensive experience in architecting high availability solutions and high-concurrency environments. Specialist in the **TypeScript & Node.js ecosystem**, with deep expertise in **GraphQL API design**, real-time communication via **WebSockets**, and scalable database modeling (NoSQL/SQL). Strong background in **Linux systems** and IA Research, focused on bridging the gap between complex software architecture and business efficiency through automated CI/CD pipelines and cloud infrastructure optimization.

## EXPERIENCE

- Bitwise Technology**  
*Tech Lead*

Aug 2025 Present  
Sorocaba, SP (Remote)

  - Leading the engineering roadmap for high-performance applications, establishing technical standards for TypeScript-based microservices and GraphQL schemas. Orchestrating full-cycle system design: from Entity-Relationship (ER) modeling and infrastructure budgeting to production-ready deployments.
  - Mentoring cross-functional teams and fostering a culture of technical excellence, focusing on code quality, scalability, and system observability.
- Bitwise Technology**  
*Full Stack Developer*

Mar 2023 Present  
Sorocaba, SP (Remote)

  - Engineered robust backend solutions using graphql, MongoDB, C#/.Net and Node.js, implementing complex business logic with high availability.
  - Developed high-performance frontend architectures with ReactJS, Vite, NextJS, optimizing for Server-Side Rendering (SSR) and Core Web Vitals. Managed CI/CD pipelines and cloud provisioning, reducing deployment lead time and ensuring seamless infrastructure scaling.
- Commcepta**  
*Full Stack Developer*

Dec 2021 Dec 2022  
Curitiba, PR (Remote)

  - Developed a large-scale Data Lake and Big Data analytical tools using GraphQL to map and query complex graph-based data structures. Implemented data processing pipelines using Python, enabling deep analysis of high-volume datasets for enterprise decision-making.
  - Enhanced a multinational company's portal with a focus on accessibility (A11y), internationalization (i18n), and performance tuning for global traffic.
- Byte Seridó**  
*Project Director*

Jun 2021 Nov 2022  
Caicó, RN

  - Directed the planning and execution of multiple software projects, ensuring high-quality delivery and efficient team collaboration.
  - Transitioned from frontend development to leadership, refining project management workflows and technical mentorship.

## TECHNICAL SKILLS

- Languages & Core:** TypeScript/JavaScript, Python, C#, Java, GraphQL, SQL, C.
- Backend & Real-time:** Node.js, ExpressJS, Socket.io, Django, NestJS, FastAPI.
- Frontend:** ReactJS/Vite, NextJS, Redux, Styled Components, Tailwind, HTML/CSS, Webpack.
- Data/AI:** Pandas, Scikit-Learn, NumPy, Matplotlib, Jupyter, Data Lakes.
- Infrastructure/OS:** Docker, ShellScript, CI/CD, Linux, VPC, CDN, DevSecOps, Monitoring/Logging.

## EDUCATION

2019/2025 - **UFRN - Federal University of Rio Grande do Norte** Bachelor's in Information Systems  
2018/2019 - **IMD/UFRN - Digital Metropolis Institute** Technical Degree in Computer Networks