

# Zaú Júlio

Tech Lead | Senior Software Engineer | Infrastructure | IA Enthusiast  
zaujulio.dev@gmail.com | +55 84 99865-1868 | João Pessoa, PB  
linkedin.com/in/zaujulio | github.com/ZauJulio

## PROFESSIONAL PROFILE

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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

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### 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

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- **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

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