João Santos

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Technical abilities

Software engineering

Programming —TypeScript, Python (good overall programming knowledge, can adapt to other languages if needed), REST APIs, microservices, etc

Markup —HTML5, CSS3, LaTeX, Markdown, etc

System and database administration

Workflow —Vim, tiling window managers, tmux, Github Actions

Tooling —Docker, git, shell script, etc

Databases —MongoDB, SQL, Redis

Operating systems —*/Linux, OpenBSD, general POSIX

Office

LibreOffice suite, LaTeX, GIMP image editing, Olive video editing, presentations with slidev

General abilities

Spoken languages

English —Fluent

Portuguese —Native

Other

Deep knowledge in information security and system administration.

Experience

Aeria (github.com/aeria-org)

Founder and mantainer (2021-present) —Aeria is a schema definition language and micro HTTP framework made on top of MongoDB. The project was the first to leverage the Aggregation Framework to populate references on the MongoDB backend directly instead of doing that in the application level, outperforming Prisma and Mongoose.

Capsul Brasil (capsulbrasil.com.br)

Senior Software Engineer (2021-jan 2025, hybrid) —Headed a small team of developers tasked with building and deploying internal and customer-facing tools. TypeScript was the most commonly used language, followed by Python. Linux and Docker were heavily used to deploy applications on a baremetal server hosted by the company.