

# João Santos

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## Technical abilities

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### Software engineering

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

Markup —HTML5, CSS3, L<sup>A</sup>T<sub>E</sub>X, 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, L<sup>A</sup>T<sub>E</sub>X, GIMP image editing, Olive video editing, presentations with slidev

## General abilities

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### Spoken languages

English —Fluent

Portuguese —Native

### Other

Deep knowledge in information security and system administration.

## Experience

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### Aeria ([github.com/aeria-org](https://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](https://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 bare-metal server hosted by the company.