Data Engineer

Who said a job description had to be a one-pager?

Your time is valuable, and so is ours. And this is a huge decision for both of us.

So we’ve done our best to provide you with all the information you need to decide whether to pursue this opportunity – or just as importantly, not pursue it.

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TLDR – is this for me?

Read on if...

- You would be proud to help people create software
- You care about the quality of your work
- You want to be challenged and grow
- You are self-motivated
- You seek out different & opposing points of view
- You enjoy healthy debates and scrutinise consensus

Move on if...

- You’re happy with the way you do things
- You find it difficult to move forward when some people disagree with you
- You dislike uncertainty
- You’re looking for a stable job that won’t change much
About Stepsize

Our mission is to make software development universally accessible.

Software fuels progress, but creating and maintaining it is hard. It’s painful to think about all the ideas that never saw the light of day because of this, and how different the world could be if they had.

We want to live in a world where anyone can create software on their own, without technical knowledge.

This is a multi-decade plan. We’re aware of it, but we don’t shy away from it.

We can’t make software development universally accessible today, but we can accelerate it. So the journey begins with software development teams.

Today we help teams access and use knowledge to create better software faster.

We take all the valuable information they generate in their day-to-day and tie it together as self-maintaining documentation. Knowledge doesn’t get lost. Time isn’t wasted digging it up. Teams are happier and more performant.

Tomorrow we’ll help teams turn knowledge into superpowers to create better software faster.

Embedded in this data are insights about how to work smarter. Certain mundane activities can be automated while others can be done better with assistance. Tomorrow’s teams will get superhuman amounts of done.

This paves the way to our long term vision of universal software development.

The data software development teams generate in their day-to-day represents how human concepts become functioning software. By assisting teams in that process, we’ll gradually deepen our understanding of how the sausage gets made. Eventually, Stepsize will become a sausage software factory.
About this role

In a nutshell, you’ll work behind the scenes to make this happen:

*We take all the valuable information they generate and tie it together as self-maintaining documentation.*

This means integrating with the tools used by software development teams, ingesting that data, making it flow to the various services that need it, processing it, and building APIs for the frontend team to access it.

At this stage of the company, we need a “full stack data engineer”. You won’t be implementing someone else’s algorithms or models in production, you’ll be implementing your own. And you won’t just be coming up with algorithms and models, you’ll bring them to production as well.

The core of our backend is a service that processes Git repos’ histories and provides an API to retrieve the relevant commits for any set of repos / directories / files. From this, other services aggregate the data requested by the user, whether that’s the relevant tasks, or the key contributors, or the team’s velocity for that part of the codebase.

Some of the data you’ll work with:

- Tasks (e.g. Jira)
- Pull requests (e.g. GitHub)
- Documentation (e.g. Confluence)
- Messages (e.g. Slack)
- Design assets (e.g. Sketch)
- Version control history (e.g. Git)
- Code (you know what this is)

Some of the technologies you’ll work with:

- REST & GraphQL
- PostgreSQL, ArangoDB, Redis, MongoDB
- Kafka
Requirements

Work experience

Basically, moving data around and doing useful things with it is what you do for a living. You might be:

- a data scientist who can’t stay locked up in the lab
- an engineer who can’t help but get really intimate with the data you handle

Relevant experience:

- Implementing complex production systems moving lots of data around and processing it in non-trivial ways
- Conceptualising elegant solutions to complex data modelling problems

Technical knowledge

More than anything, you’ve shown an ability and hunger to pick up new technologies to get things done. Technology is a means to an end.

Relevant technologies:

- Typed languages (we use Typescript - you should be willing to pick it up quickly)
- Web frameworks (we use Express)
- Relational databases (we use PostgreSQL)
- Graph databases (we use ArangoDB)
- Document stores (we use ArangoDB & MongoDB)
- Message brokers & event buses (we use Kafka & Redis)

Machine learning experience is not required.

Note that these are the technologies we use today but they’ll evolve over time and you’ll contribute to this evolution.
**Personality**

We look for people who behave, communicate, and think in ways that exemplify the culture that we want to preserve and nurture as the company grows.

**Behaviour**

**Initiative**

Something can be done better? Something doesn’t look right? You take it upon yourself to bring it up and do something about it.

**Ownership**

Your work is yours. You own the journey, the successes, and the failures.

**Pragmatism**

You adapt to the situation at hand. In particular, you recognise:

- the conditions calling for hacky solutions & those calling for robust solutions
- the time for disagreement & the time to disagree and commit
- the difference between reversible & irreversible decisions

**Team work**

You cultivate good team work and understand its value. You make the most of your teammates’ knowledge, and you enjoy helping them back.

**Communication**

**Listening**

You realise that being a good communicator is mostly about being a good listener.

**Efficiency, clarity, and precision**

You value efficiency so you’re constantly solving for the shortest path solution in any exchange.
Understand > convince

You focus on understanding the other person’s perspective when you have a disagreement before even considering convincing them that yours is the right one.

Over-communicate

You have a tendency to over-communicate to build alignment with the team.

Thought process

Intellectual curiosity

You see your education as a life long project and driving it forward a priority.

Intellectual security

You see being wrong as an opportunity to learn from your peers rather than as a display of weakness or something to be ashamed of.

Intellectual honesty

You look for the best argument for and against every idea, regardless of where the idea came from, and in the end the best argument wins. Ego never gets in the way of truth.

Intellectual humility

You respect established knowledge, recognise its value, and make the most of it whenever you can...

Intellectual independence

...but ultimately you make up your own mind about things. Even about things that are widely accepted to be the case.
Next steps

- Play around with our dev app (email hello@stepsize.com, password StepsizeDem0)
- Drop us a line at join@stepsize.com and tell us a bit about yourself and why you’d like to apply for this position (include some sort of CV please)

We’d hope this went without saying, but sadly it doesn’t, so we want to explicitly note that we’re an equal opportunity employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.