

Ruby on Rails developer

Introduction

At Reevoov we care a lot about producing good quality code that attempts to satisfy the most important problems at any given time. You might call that 'agile'; we'd call it good sense. Story cards, pair programming and writing tests are things we think help us write good code, although we're always talking about ways to make this stuff better.

We take pride in contributing back to Open Source (see labs.reevoov.com), and particularly to Ruby and Rails – examples of code that has been developed and maintained here include the mocking library as used by Rails core (Mocha), various messaging plug-ins, CacheFS and a fairer Apache load balancing module that is now part of core Apache. We also think that contribution shouldn't be limited to software; while it's great to have great tools to work with, we believe that strengthening the community is just as important (an example of this is our involvement in the London Ruby Users Group).

For those of you who like to know this kind of stuff when applying for jobs, here are just some of the technologies involved in Reevoov's architecture: Redis, Starling, Memcached, Airbrake, Solr/Lucene, Cruisecontrol, Selenium, Chef, Git

Weekly sprint cycles with continuous deployment, allocated time to work on your own projects (Google copied us :-)), constant engagement with business users and a genuine passion to build the best products to help consumers decide what to buy all come together to make Reevoov a great place to work.

Hopefully some of the above is why we're consistently voted the #1 place in Europe to work with Ruby on Rails. We're growing the team and looking for engineers that can bring complementary skills and experience to an already great team.

Specification

1. Energetic, enthusiastic and full of bright ideas.
2. A complete passion for Ruby on Rails. For our graduate positions we ask you to show evidence of spending every spare second working on Rails projects (final year projects or side projects definitely qualify here). For senior positions we need you to have worked for a minimum of 2 years in a commercial Ruby on Rails role. Your contributions to open source projects or private projects will gain you extra points.
3. For all but the graduate positions, you should have had exposure to working within a commercial Agile environment. That means you must be:
 - a. an advocate of Test Driven Development and experienced at practicing it
 - b. used to the benefits of working in a pairs
 - c. believe in small incremental changes with immediate results.

Questionnaire

Since CVs rarely give enough insight into a person, we'd like you to complete the following short questionnaire:

1. What is your favourite feature of the most recent Rails release?
2. What are the biggest cons of Ruby on Rails?
3. If you could improve one part of Rails, what would it be?
4. What Ruby/Rails projects/libraries have you contributed to? Please provide links/details.
5. If Rails didn't exist, what tools do you think you'd be using right now, and why?
6. What do you think about testing as part of development?
7. How do you cope with differences between browsers?
8. Can you name one advantage of test-first development over test-last development?
9. If you've ever done any pair programming, can you think of one thing about it you enjoyed & one thing you didn't?
10. Is any code you have written currently in a live production system? Where?
11. Have you ever experienced problems integrating parts of a system written by different people? How did you tackle the problems?
12. If a project has 70% test coverage, what conclusion is it safe to draw?
13. How old were you when you first wrote a computer program?
14. Have you ever been given ambiguous requirements? How did you resolve the ambiguity?
15. What is your opinion about version control branching?
16. What is the best book about software development that you've read?

Questionnaire

If you had to cook a meal for 18 developers and product people, what would you cook? (We love these <http://devfort.com>)

17. What is the one thing you'd like us to know about you that isn't in your CV?

18. What is your least favourite of the programming languages you've used and why?

19. What interests you about working with Ruby on Rails?

20. How many developers would be in your ideal development team?

21. If you find a bug in a colleague's code, what do you normally do about it?

22. Is there one personality trait that you think makes a good software developer?

23. What is most important to you in choosing a job – the technologies being used, the remuneration package, the people, the problem domain, or something else?

24. If you weren't a software developer, what would you be?

Software Test

Reevoo's quest for global domination has prompted us to open a supermarket – we sell only three products:

Product code	Name	Price
FR1	Fruit tea	£ 3.11
SR1	Strawberries	£ 5.00
CF1	Coffee	£11.23

Our CEO is a big fan of buy-one-get-one-free offers and of fruit tea. He wants us to add a rule to do this.

The COO, though, likes low prices and wants people buying strawberries to get a price discount for bulk purchases. If you buy 3 or more strawberries, the price should drop to £4.50.

Our check-out can scan items in any order, and because the CEO and COO change their minds often, it needs to be flexible regarding our pricing rules.

The interface to our checkout looks like this (shown in Ruby):

```
co = Checkout.new(pricing_rules)
co.scan(item)
co.scan(item)
Price = co.total
```

Implement a checkout system that fulfils these requirements in Ruby.

Test Data

Basket: FR1, SR1, FR1, CF1
Total price expected: £22.25

Basket: FR1, FR1
Total price expected: £3.11

Basket: SR1, SR1, FR1, SR1
Total price expected: £16.61