

# Software Engineering Intern

## DevOps home challenge

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Your task is split into **five parts**, complete as many as you can. Email us the public GitHub repository link once you have finished. It is preferred to commit as you develop, instead of having one single commit.

### Part I - API

Write a simple application in any language (Typescript or Golang preferred), with three endpoints, that all forward requests to the public Pipedrive API (<https://developers.pipedrive.com/docs/api/v1/Deals>). Use [api-tokens](#).

**GET /deals** - gets all deals

**POST /deals** - adds a new deal

**PUT /deals** - updates an already existing deal

Test as much as it is reasonable.

### Part II - Instrumentation

Log everything that happens, to console, in a clean and succinct way.

Add a **GET /metrics** endpoint that will return request metrics (such as mean request duration and latency) about all endpoints.

### Part III - CI

Use GitHub Actions to create a simple test-on-commit workflow that will run all your tests, and linting, for every commit pushed to a pull-request.

## Part IV - CD

Use GitHub Actions once again to create a workflow that runs only when a pull-request is merged to master. This workflow should do nothing but log "Deployed!"

## Part V - Reproducibility

Create a README with clear instructions on how to run the application locally, preferably (strongly) with Docker. Describe every part that you have done.

### → Submitting the challenge

Once you are ready to submit, we would like you to share your public GitHub repository link with **Ragnar** ([ragnar.paide@pipedrive.com](mailto:ragnar.paide@pipedrive.com)), **Martin** ([martin.aun@pipedrive.com](mailto:martin.aun@pipedrive.com)), **Mariana** ([mariana.moreno@pipedrive.com](mailto:mariana.moreno@pipedrive.com)) and **Ricardo** ([ricardo.dasilva@pipedrive.com](mailto:ricardo.dasilva@pipedrive.com)).

Good luck!