Internship Details - Bouquet.ai

About Bouquet.ai

Bouquet.ai provides a chatbot that lets users query data from any database using natural language, and via messaging applications like facebook messenger and slack. The value is to help business users obtain the information they need in a conversational way, instead of asking someone to write the query for them. We call it a personal analytics assistant that's always on and that responds immediately.

Check out bouquet.ai for more details.

Here is our public Messenger bot demo you can try: https://m.me/tickitchatbot

About the internships

Scope

We are looking for interns to work on developing the bot on both the front and back-ends. We use Nodejs / TypeScript for the backend and various JS libraries for the front-end.

Here is the tentative scope of the work (this is subject to change based on feedback from users):

- **Integration with messaging platforms**: we currently support facebook messenger and are working on slack. Other messaging platforms that we'd like to connect to include telegram, chatter, skype for business, jabber etc.
- **Integration with hardware devices** like chromeboxes to have the bot reside in an appliance in a meeting room
- **Developing bot features**. We have a lot of things in mind like improving natural language generation (NLG) for bot responses, building meaningful notifications, and automating various actions for the users (sending emails, reports, exports…).
- **Automating natural language processing (NLP) training**: we currently use Wit.ai and would like to automate the training when we roll out a new customer.
- **Authentication & security**: securing access to data via login / pwd or single-sign on and implementing data access authorization rules.
- **Database integration** to track user sessions.

Workload

We're looking for one intern for 5-7 months starting February 2018.

Conditions

Offices are located in Sausalito, CA. We'd like to have our interns work mainly at the office.

We received seed funding and are looking to raise VC money, but until then we need to be careful with our expenses. We offer **$3,500 a month**.

We're a start-up. We believe that passionate developers can build great things if they put their full attention to it, even if they don't have prior experience about the subject. We just need you to want to succeed, to love technology, to own your work and not to give up.

In return, you'll be working on a really cool topic, you'll be in charge of your work and you'll gain an awesome experience to kick off a great career in tech.

Coding exercise

To give us an idea of your coding skills, we kindly ask that you do as much of the coding exercise below by Monday, November 20. Actually, the sooner the better as it will give us time to do our homework.We'll review the code together during the interview.

The Bouquet.ai team

Coding Exercise
bouquet.ai

Goal:

Build and deploy a NodeJS server, which renders an HTML page with an interactive bar chart data visualization of public open data.

Skills required:

- Server deployment
- NodeJS basic knowledge
- Front end development with external libraries, API calls and interactions

Instructions:

You will use the public data API from Marin County.
The dataset contains information about contracts (department, amount, date, id, …) in the County from July 1, 2016 to June 30, 2017.

Link to the dataset page:
https://data.marincounty.org/County-Government/Delegated-Contracts/rp6f-b7dy/

API URL: https://data.marincounty.org/resource/mw3d-ud6d.json
Parameters to use: month_and_year
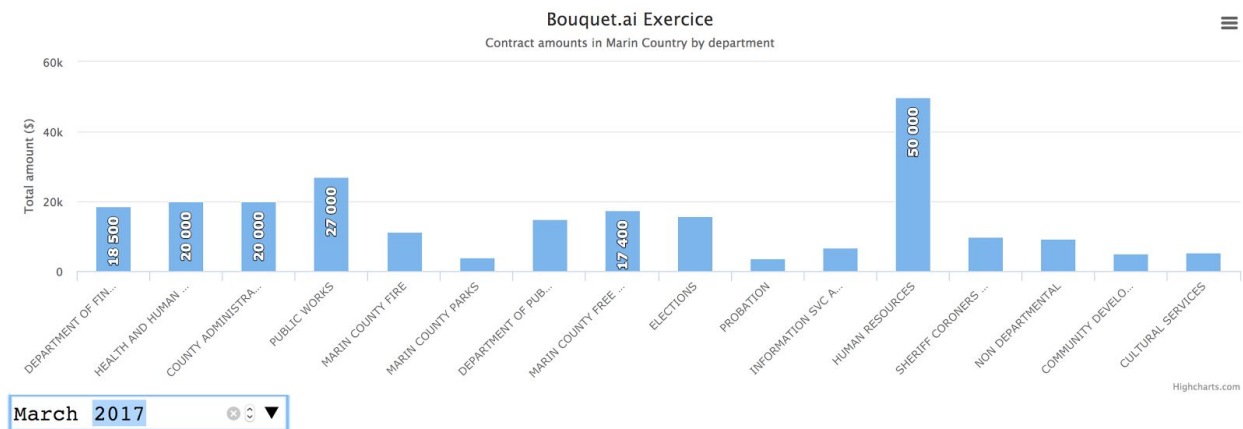
This API gives back an Array of JSON.
The relevant JSON fields for the exercise are 'department' and 'amount'.

To do:

Display the total sum amount by department in a bar chart.

The user must be able to choose the month_and_year filter value with a Month picker widget. The widget and chart must be interactive. When the user changes the Month picker value, the chart has to update and display the new data.

The screenshot below is an example of an acceptable entry:

Finally, deploy your server on Heroku.

When you're done, send us the source code (Github or email) and the URL where your server is hosted.

Contact information: please contact aristotle@bouquet.ai for any questions and to send over your work.

Good luck!