```
            if (datum < min)
                min = datum;
            if (datum > max)
                max = datum;
        }
        context.fillRect(i,(1+min)*amp,1,Math.max(1,(max-min)*amp));
    }
}
```

In the `drawBuffer()` function, if you give the width, height, context, and data as arguments, then, based on the sound levels, it creates a brilliant graph of rectangles side by side. This code, like all the other JavaScript files, was written by Chris Wilson.

This concludes the construction of the front end of Melissa's system—you have a user interface, ready for use. You can start Python's `web.py` server by entering the following command on your terminal:

```
$ python web-gateway.py 127.0.0.1
```

This command notifies you that the server is running on `http://127.0.0.1:8080/`. Go to your web browser (use only Firefox or Chrome) and open the URL, and you will see a web interface like that shown in Figure 8-2.

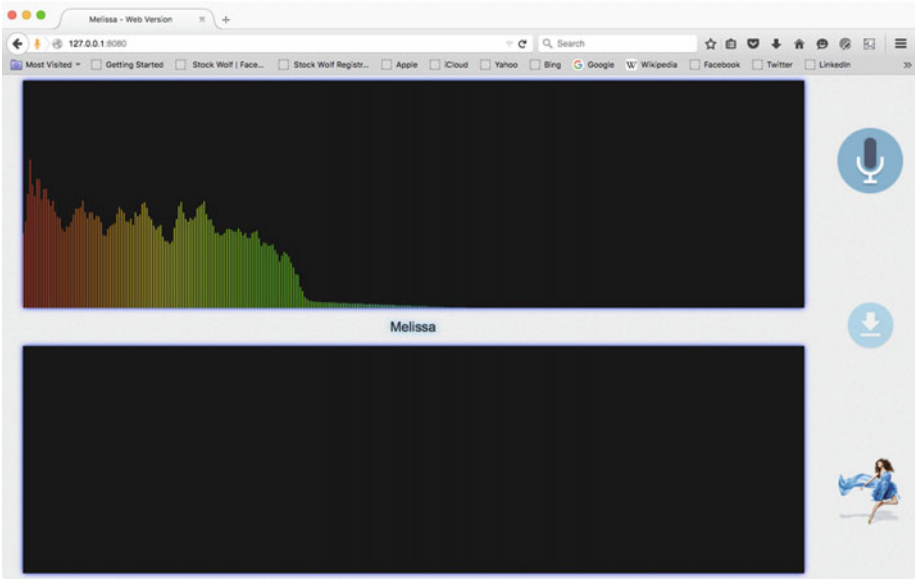

Figure 8-2. *Melissa's web interface*