

Andrei-Niculae PETRE

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Objective After having worked full-stack for 5 years, I'm looking for some low level programming opportunities. In addition, I've got 1.5 years C++ experience as a TA in university and an interest in open source, python, linux, rock climbing and chess; check my website for more. I'm also a member of [ROSEdu](#), an organization that promotes open-source in education.

Experience **Developer, [UpbeatPR](#)**, San Francisco, CA Feb 2015 - present
Highly targeted pitching process, enabled through our amounts of data we collected about journalists - PR without relationships.

- One of the first engineers at Upbeat, designed and built systems core to our business in Python, Django, Scrappy, Celery, ElasticSearch, Javascript (ES6), React, Redux and Ruby on Rails
- Worked on all parts of delivering software: design, implementation, testing, deployment, continuous integration, maintenance, instrumentation and monitoring.
- Worked remotely $\frac{2}{3}$ of my time at Upbeat, but, in spite of that, was able to become an asset to the team, helping my colleagues grow through well-thought and in-depth code reviews. Maintainer of our scraping system and of our data quality efforts.

Selected accomplishments

- Implemented an indexing system using ElasticSearch, that powered an internal search engine that our PR agents used to pitch journalists - our primary business driver. We've indexed ~16M articles in ElasticSearch.
- Designed and built a cost-effective FeedPoller system that had daily volume of ~650K new urls per day from 20K feeds we had in our db. It was able to poll the feeds efficiently, each worker could handle hundreds of urls over a few seconds, doing asynchronous requests with a combination of gevent and celery. The system could easily scale horizontally.

Teaching Assistant, POLITEHNICA University of Bucharest 2013 - 2014, 2016 - 2017
Data Structures & Algorithms I've taught 3 times, using C++. Also taught 3 other classes.

Developer, [dev.Label](#) Aug 2014 - Jan 2015
Full stack developer, used Groovy, Javascript, Coffeescript and ChromeDriver for working on [trade.it](#), a multi-broker trading application, while in its early development stage.

Developer, [UberVU](#) (acquired by HootSuite, ~15M\$) Jun 2012 - Sept 2013
Social media analytics, monitoring and engaging dashboard.

- Started working at uberVU while still in college, and picked up best practices and new technologies I've never worked with before with tremendous speed.
- First as a Frontend Engineer, working on our own [mozaic.JS](#) (backbone.js based) framework that enabled the new interface that would lead to the acquisition of uberVU, just 4 months after my leave
- Then also working on the REST API for the JS frontend, using Django, Tastypie and MySQL
- Finally, worked on the Python backend pipeline that collected and indexed data into MongoDB and ElasticSearch, as well as on our CI system and deployment scripts

Education **BSc**, Major in Engineering and Computer Science Oct 2010 - July 2014
University POLITEHNICA of Bucharest, Romania
Faculty of Automatic Control and Computer Science

Skills

In Production: Python, Django, Flask, ElasticSearch, mongo, Scrappy, Celery
JS, nodeJS, React, Redux, CoffeeScript, jQuery, Backbone.js
Git, Bash shell scripting, Heroku, PostgreSQL, ChromeDriver
Groovy, Grails, Ruby on Rails

In TA classes: C++, Java

In open source course: C & GObject for Anjuta, a Gnome IDE, during an open source course, [CDL](#)

In General: Go, Scheme, Haskell, Prolog

Certifications: Linux (LPIC-1)