

Andrei-Niculae PETRE

andrei@linux.com
andreipetre.ro

About

I'm excited about low-level programming and backend-oriented opportunities. I've got 5 years Python experience as a full stack developer and 1.5 years C++ experience as a TA in university and an interest in open source, c(pp), python, linux, rock climbing and chess. Check [my website](#) for a list of open source contributions. I'm also a member of [ROSEdu](#), an organization that promotes open-source in education.

Experience

Software Engineer, [UpbeatPR](#) (prev. Crowdbooster), Bucharest Dec 2015 - March 2018
Software Engineer Intern, [Crowdbooster.com](#), San Francisco, CA Feb 2015 - Aug 2015

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.

Software Engineer, [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.

Teaching Assistant, POLITEHNICA University of Bucharest

2013 – 2014, 2016 – 2017

Taught Data Structures & Algorithms class for 3 years, using C++. Also taught 3 other classes: Object Oriented Programming, Functional Programming and Complexity Analysis of Algorithms.

Software Engineer, [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
University POLITEHNICA of Bucharest, Romania
Faculty of Automatic Control and Computer Science

Oct 2010 - July 2014

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

TA & personal projects:

C, C++, Java

For fun:

Go, Scheme, Haskell, Prolog

Certifications:

Linux (LPIC-1)