

# Andrei-Niculae PETRE

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Objective	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 <a href="#">my website</a> for a list of open source contributions. I'm also a member of <a href="#">ROSEdu</a> , an organization that promotes open-source in education.	
Experience	<b>Software Engineer, UpbeatPR</b> , San Francisco, CA Feb 2015 - March 2018 Highly targeted pitching process, enabled through our amounts of data we collected about journalists – PR without relationships. <ul style="list-style-type: none"><li>• 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</li><li>• Worked on all parts of delivering software: design, implementation, testing, deployment, continuous integration, maintenance, instrumentation and monitoring.</li><li>• Worked remotely <sup>2</sup>/<sub>3</sub> 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.</li></ul>	
	<b>Selected accomplishments</b> <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>	
	<b>Software Engineer, dev.Label</b> Aug 2014 - Jan 2015 Full stack developer, used Groovy, Javascript, Coffeescript and ChromeDriver for working on <a href="#">trade.it</a> , a multi-broker trading application, while in its early development stage.	
	<b>Teaching Assistant, POLITEHNICA University of Bucharest</b> 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.	
	<b>Software Engineer, UberVU</b> (acquired by HootSuite, ~15M\$) Jun 2012 – Sept 2013 Social media analytics, monitoring and engaging dashboard. <ul style="list-style-type: none"><li>• 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.</li><li>• First as a Frontend Engineer, working on our own <a href="#">mozaic.JS</a> (backbone.js based) framework that enabled the new interface that would lead to the acquisition of uberVU, just 4 months after my leave</li><li>• Then also working on the REST API for the JS frontend, using Django, Tastypie and MySQL</li><li>• 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</li></ul>	
Education	<b>BSc</b> , Major in Engineering and Computer Science <b>University POLITEHNICA of Bucharest</b> , Romania Faculty of Automatic Control and Computer Science	Oct 2010 - July 2014
Skills	<b>In Production:</b> 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 <b>TA &amp; personal projects:</b> C, C++, Java <b>For fun:</b> Go, Scheme, Haskell, Prolog <b>Certifications:</b> Linux (LPIC-1)	