

Andrei-Niculae PETRE

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EDUCATION **Politehnica University of Bucharest, Romania** **Oct 2010 – present**
BSc, Major in Engineering and Computer Science (Class of 2014)
Faculty of Automatic Control and Computer Science

PROFESSIONAL
EXPERIENCE **uberVU** **Jun 2012 – Sept 2013**
Software Developer, python, django, coffeescript, js

On the *frontend* side I worked on building and enhancing our **coffeescript internal framework** (Mozaic.js), together with tweaking our **django** API. While working on django, I wrote **unit & integration tests**, did **data & schema mysql migrations**, and customized the django part which was a middleware for our backend infrastructure.

On the *backend* I **customized controllers** from our pipeline based infrastructure, dealing with data from social platforms. My recent work involved forwarding data to our **elasticsearch db**, as well as stemming words to produce more accurate n-grams.

I wrote a script that used our **deployment merging system**. It rsync'ed the code on machines and then did application specific steps (e.g. migrations, bundling js etc.).

Reference to **Bogdan Sandulescu** (CTO, uberVU) - e-mail: bogdans83@gmail.com

Reference to **Andrei Ismail** (Developer, uberVU) - e-mail: iandrei@gmail.com

Politehnica University of Bucharest, Romania **Oct 2013 – present**
Teaching Assistant

Classes: Algorithms Analysis, Data Structures and Functional programming.

Reference to **Matei Popovici** (Analysis of Algorithms Professor) - e-mail: pdmatei@gmail.com

Artificial Intelligence & Multi-Agent Systems Lab **Jun 2011 – Sept 2011**
Intern, prolog, git, python, bash, virtual machine

I developed a homework for the AI class with a robot exploring a space. As a 1st year student, the declarative way of thinking from prolog was a challenging and wonderful experience. Customized a Linux minimal VM to run over an open-source automated homework evaluation utility, **Vmchecker**.

Reference to **Andrei Ismail** (PhD, AI-MAS Group) - e-mail: iandrei@gmail.com

COMPUTER
SKILLS Python, Coffeescript: industry experience
C, Java: school and personal projects
Algorithms and Data Structures: school projects, programming contests
Linux: LPIC-1, operating systems classes

OTHER
ACTIVITIES **ROSEdu member** **Aug 2011 - present**

ROSEdu (Romanian Open Source Education) is a community of students from my university, passionate about IT and open-source. We develop open-source projects and organize different events.

- Jun 2011 - Jun 2012: responsible with **coordinating** the *Open Source Development Course*, for two consecutive editions
- Mar 2013 - Oct 2013: involved in a **mentorship** session and **held technical presentations** (git, Flask) for *Open Source Development Course*
- Oct 2013 - Jan 2014: involved in a **course dedicated to teaching high school teachers Python** programming language, so they can teach it in class
- Oct 2013 - present: involved in **writing a Python book** addressed to high school and beginners in programming

Reference to **Razvan Deaconescu** (ROSEdu Founder) - e-mail: razvan.deaconescu@cs.pub.ro

National Romanian Scouts member

Being a scout means to me to always be happy, friendly, play games, hike, camp, as well as make new friends and be a good example for those alongside.

Hobbies: swimming, hiking, chess