

Adrian SCOICĂ

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OBJECTIVE

Software Engineer Intern

WORK EXPERIENCE

Jul 2013 - **Google Inc**, New York, NY, USA

Oct 2013 **Software Engineer Intern**

I was part of the Maps Spam Team, and worked on implementing a new local listings spam-filtering model that would take advantage of the latest Machine Learning solutions developed at Google. I developed a pipeline to automate training, benchmarking, and deploying spam filtering models for Google Maps, and I contributed patches to a ML framework visualizer.

Dec 2012 - **University of Cambridge**, United Kingdom

Jul 2013 **MPhil Dissertation Research Project** - Multilingual Generative Models for
Selectional Preference Learning

The project studied the possibility of cross-language plausibility estimation between English and languages in which not enough dependency-parsed data can be obtained to train native generative language models. My research focused on using Latent Dirichlet Allocation to train probabilistic language models, and Bilingual Vector Spaces to align them, and I demonstrated state-of-the-art performances on three, previously-untested European languages, with applications in Word Sense Disambiguation and Resolution Tasks.

Dissertation available at http://www.cl.cam.ac.uk/~as2270/MPhil_Dissertation.pdf

May 2012 - **Google Inc**, New York, NY, USA

Aug 2012 **Software Engineer Intern**

I was part of the Search Titles Team and worked on improving the quality of the search result titles. I familiarised myself with some of the Natural Language Processing algorithms used for generating alternative titles for web pages, I designed, documented and implemented a title analysis algorithm and used it for a data launch.

Nov 2011 - **Politehnica University of Bucharest**, Romania

Jul 2012 **Bachelor Thesis Project** - Automatic Plagiarism Detection in Specialized Corpora

The project studied the characteristics that differentiate specialized corpora from general text samples and the way various successful solutions to the general problem of plagiarism detection were improved and implemented for use on specialized writing.

Thesis available at http://swarm.cs.pub.ro/~adrian.sc/Bachelor_Thesis.pdf

Jun 2011 - **Google Inc**, Mountain View, CA, USA

Sep 2011 **Software Engineer Intern**

I worked on optimizing speed and memory performances and on fixing bugs in Chrome, specifically in the i18n code, and also wrote a speed benchmark for v8 implementations against various JS frameworks, implemented ECMA Script drafts, and started working on Ontology reconciliation across natural languages.

Jul 2010 - **BitDefender SRL**, Bucharest, Romania

Oct 2010 **Software Engineer Intern**

I developed a browser independent XSS detection module based on recognizing source code injections and cookie leaking, developed a performance analysis tool for a MongoDB server, and worked on a worker script for the QuickScan cloud.

Oct 2009 - **Politehnica University of Bucharest**, Romania

Jul 2012 **Teaching Assistant** - Computer Programming Course, Algorithm Design Course
Data Structures Course, Operating Systems Usage Course

Responsibilities: teach during laboratory classes; write laboratory exercises and homework; write automatic graders for the programming assignments; write tutorials; course repository management.

EDUCATIONAL BACKGROUND

- Oct 2013 - **PhD**, Natural Language Processing
present **University of Cambridge**, United Kingdom
The Computer Laboratory
(Supervised by Prof. Ted Briscoe)
- Oct 2012 - **MPhil**, Advanced Computer Science, Natural Language Processing
Jul 2013 **University of Cambridge**, United Kingdom
The Computer Laboratory
(Graduated with first-class honours)
- Oct 2008 - **BSc**, Major in Engineering and Computer Science
Jul 2012 **Politehnica University of Bucharest**, Romania
The Faculty of Automatic Control and Computer Science
(GPA 9.86 out of 10)
- Sep 2004 - **High School Diploma**, Computer Science and Mathematics Major
Jun 2008 **"Eudoxiu Hurmuzachi" National College**, Rădăuți, Romania
(GPA 9.98 out of 10)

TRAINING COURSES

- Jul 2009 - **Technical University of Denmark**, Copenhagen, Denmark
Aug 2009 **Summer Course on Windmill Technology** by BEST
(Board of European Students of Technology)
- Feb 2009 - **Politehnica University of Bucharest**, Romania
Jun 2009 **CDL - Open Source Software Development Course** by ROSEdu
The final evaluation project consisted of a NetHack clone with a GUI developed in GTK.
- Sep 2007 - **Oracle Corporation**, Romania
Jul 2008 **The Oracle Academy - Data Modelling Course**
A course on SQL and Data Modelling theory, also covering some of Oracle's DB technologies.

TECHNICAL SKILLS

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|--------------------------------|---|
| Programming Languages | C, C++ (advanced knowledge, industry experience)
Java, JavaScript, Shell Scripting,
SQL, HTML+CSS (good knowledge, industry and school experience)
Python, Perl, HTML, XML, Sawzall,
Assembly Language (beginner knowledge, project-specific experience) |
| Version Control Systems | GIT, SVN, Perforce, Mercurial |
| Algorithms and Data Structures | (programming competitions, university projects, teaching experience) |
| Operating Systems, Compilers | (university projects) |

LANGUAGES

- | | | |
|-----------------|----------|---|
| Romanian | Native | |
| English | Fluent | Cambridge Certificate of Proficiency in English (British Council) |
| German | Good | Zertifikat Deutsch (Goethe Institute) |
| Spanish | Beginner | |
| Korean | Beginner | |

"AuthentiCop: Automatic Plagiarism Detection System for Specialized Corpora", A. Scoică, F. Buruiană, Student Scientific Paper Session at the UPB, 2012.

ACM XRDS Magazine. I have been on the editorial board of the Association for Computing Machinery's international graduate student magazine since December 2012. Being in charge of the Profile column, my job is to select, interview and write stories about world-class computer scientists and tech leaders whose work is related to each issue's topic (more info about the magazine at <http://xrds.acm.org/aboutus.cfm>).

Oracle Global Data Modelling Competition **15th place** globally - 2008

Hobbies: Traveling, Hiking and the Outdoors, Sports, Foreign Languages, Stand-up Comedy