Petar Ivanov

born: 29 MAY 1989 in Shumen, Bulgaria

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SUMMARY

Graduate with solid background in algorithms and data structures. Winner of programming competitions. Did multiple Bio&IT research internships. Loves teaching and communicating science. Software engineer at Google.

SKILLS

Algorithms: Graphs, Combinatorics, Strings, Geometry, Optimization, Dynamic Programming

Programming: C/C++ (STL), Python (NumPy, SciPy, MatPlotLib), Ruby, MATLAB

Tools: Unix, Bash, Vim, Git, 上工X Speaks: English, Russian, Bulgarian

EDUCATION

SEP 2014 — SEP 2015 (EXP.)	Master degree in Software Engineering , Distance education Shumen University, Bulgaria
SEP 2009 — JUN 2013	Specialist degree (equivalent to Master) in Applied Mathematics and Informatics
(interrupted by visa issues)	Moscow State University, Russia // calculus, Computer vision \$\psi\$ transferred as I could not enter Russia
Jun 2014	Got a Bachelor degree in Computer Informatics
Sep 2011 — Jun 2013	Shumen University, Bulgaria Master degree (not accredited) in Bioinformatics // + taught algorithms to biologists
	Yandex School of Data Mining, Moscow, Russia
SEP 2008 — JUN 2009	Bachelor degree in Computer science // + led seminars in advanced algorithmics
(moved to Moscow University)	Sofia University, Bulgaria // mainly discrete maths
Sep 2000 — Jun 2008	Mathematics and Physics profile // award for most scientific achievements of his year Shumen High school of Sciences, Bulgaria

Additional:

Jan 2011	Vision and Machine-learning Research School, ENS Lyon, France
JUL 2008	RUSSIAN SUMMER INFORMATICS CAMP, Kostroma, Russia // 3 weeks of problems and theory
AUG 2007	PHYSICS CAMP, Panitsite, Bulgaria // 3 weeks of maths and physics
2004 - 2007	SUMMER RESEARCH INFORMATICS CAMP, Varna, Bulgaria // 2-week problem solving
2001 — 2008	MATHEMATICS AND INFORMATICS PRIVATE SCHOOL "A&B", Shumen, Bulgaria

INDUSTRY

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SEP 2014 − Software Engineer at Search ⊃ Knowledge ⊃ Infrastructure

NOW Google Zurich // big data, messy pipelines and loads of code
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INTERNSHIPS

JUL 2013 — AUG 2013	
SEP 2012 — Jun 2013	Microbiological models designer // Microcin modelling supervised by Prof. Konstantin Severinov, Institute of Gene biology, Russian Academy of Sciences
JUL 2012 — AUG 2012	Research internship on probabilistic verification of biological models // insisted on my own topic on virus-bacteria interaction [Summary] supervised by Prof. Martin Vechev, Software Reliability Lab, ETH Zurich
JUL 2011 — AUG 2011	
JUL 2007 — SEP 2007	Developer of a bin-packing genetic algorithm for glass cutting optimization Telepol Net, Bulgaria // appreciating evolution and first algorithm in production

TEACHING

SEP 2015 (EXP.)	Supervisor of high school students // leading an evolutional computational project Science&Arts school "Science Xplore", Viseu, Portugal
Nov 2013 — Jun 2014	Students informatics competitions trainer // meanwhile sketching an algorithmic textbook Mathematics and Informatics Private School "A&B", Shumen, Bulgaria
Nov 2013 — Jan 2014	Technical Assistant in a <i>Coursera Bioinformatics course</i> // lectures editing, forum explanations supervised by Dr. Pavel Pevzner, University of California, San Diego
Aug 2010	Lecturer at school students informatics camp // strongest Russian competitors Russian Summer Informatics Camp, Saratov
Mar 2008 — Jun 2009	Assistant in "Design and Analysis of Algorithms" course // led seminars to a group of 20 people Faculty of mathematics and informatics, Sofia University, Bulgaria
Sep 2008 — Jun 2009	Jury, organizer, tester and author of the problems in Online programming tournament <i>Musala Soft, Bulgaria</i> // mainly discrete optimization problems
Jun 2009,	Author of problems for Bulgarian Tournaments in Informatics Lecturer at National Informatics Camps National Committee in Informatics, Bulgarian Ministry of Education

1st place	"Minko Balkanski" Competition in Informatics '08
11 th place	TOPCODER HIGH SCHOOL FINALS, WEST LAFAYETTE, USA '08
1st place	AUTUMN TOURNAMENT IN INFORMATICS '07
1st place	STUDENT COMPETITION FOR THE DEAN'S CUP OF SOFIA UNIVERSITY '07
2 nd place	International Young Physicists Tournament (regional, in team) '06
1st place	"Rumen Grozdanov" Informatics and Mathematics Tournament '06
1st place	WINTER TOURNAMENT IN INFORMATICS '06

- Awarded as a National Laureate in Informatics, Bulgaria '08
- Scholarship for science achievements of American Foundation for Bulgaria '07-'08
- Participated in the final rounds of the BULGARIAN OLYMPIAD IN INFORMATICS '05-'08
- Participated in the final rounds of the TopCoder High School, West Lafayette, USA '07-'08
- Participated in the final rounds of "MUSALA SOFT AND PC MAGAZINE" competition '07-'08

ACTIVITIES:")

Solves algorithmic problems // TOPCODER, TIMUS, ROSALIND
 Opens the source // GitHub profile
 Founded a project for describing educational systems
 Enjoys hiking, biking, dancing, paragliding and running // 42.195km in 3:43h, Zelenograd, Russia, Dec 2011 // 100km in 13:19h, Vitosha mountain, Bulgaria, 2012