

Petar Ivanov

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SUMMARY

Informatics competitor, communicator and educator.
Makes the world smarter by pushing algorithms to natural sciences.

SKILLS

Algorithms: Graphs, Combinatorics, Strings, Geometry, Optimization, Dynamic Programming
Languages: C/C++ (STL), Python (NumPy, SciPy, Matplotlib), Ruby, MATLAB, Java
Tools: Unix, Bash, Vim, Git, \LaTeX

EDUCATION

SEP 2013 – NOW <i>(graduated all semesters)</i>	Bachelor degree in Computer Informatics Shumen University, Bulgaria
SEP 2011 – JUN 2013	Master degree <i>(not accredited)</i> in Bioinformatics // I also taught algorithms to biologists Yandex School of Data Mining, Moscow, Russia
SEP 2009 – JUN 2013 <i>(interrupted by visa issues)</i>	Specialist degree <i>(equivalent to Master)</i> in Applied Mathematics and Informatics Moscow State University, Russia // more calculus
SEP 2008 – JUN 2009 <i>(moved in Moscow University)</i>	Bachelor degree in Computer science // instructor of advanced algorithmics course Sofia University, Bulgaria // mainly discrete maths
SEP 2000 – JUN 2008	Mathematics and Physics class // 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, Sudislavl', Kostroma region, Russia
AUG 2007	PHYSICS CAMP, Panitsite region, Bulgaria
2004 – 2007	SUMMER RESEARCH INFORMATICS CAMP, Varna, Bulgaria
2001 – 2008	MATHEMATICS AND INFORMATICS PRIVATE SCHOOL "A&B", Shumen, Bulgaria

WORK EXPERIENCE

NOV 2013 – NOW	High-school students trainer for informatics competitions // <i>sketched an algorithmic textbook</i> <i>Mathematics and Informatics Private School “A&B”, Shumen, Bulgaria</i>
NOV 2013 – JAN 2014	Technical Assistant in online bioinformatics Coursera course <i>supervised by Dr. Pavel Pevzner, University of California, San Diego</i>
JUL 2013 – AUG 2013	Summer internship on SPAdes genome open source assembler // <i>presentation</i> <i>// proof of concept: used replication bugs to enhance assembly in opensource assembler</i> <i>supervised by Dr. Pavel Pevzner, Algorithmic Biology Lab, Petersburg Academic University</i>
SEP 2012 – JUN 2013	Microbiological models designer <i>supervisor: prof. Konstantin Severinov, Institute of Gene biology, Russian Academy of Sciences</i>
JUL 2012 – AUG 2012	Researcher internship on verification of probabilistic biological models // <i>summary</i> <i>supervised by Prof. Martin Vechev, Software Reliability Lab, ETH Zurich</i>
JUL 2011 – AUG 2011	Google Summer of Code internship // <i>implemented topological operators on tetrahedral meshes</i> <i>Computational Geometry Algorithms Library (CGAL)</i>
AUG 2010	<i>Lecturer at school students informatics camp</i> Russian Summer Informatics Camp , Saratov
MAR 2008 – JUN 2009	<i>Assistant in “DESIGN AND ANALYSIS OF ALGORITHMS” course</i> Faculty of mathematics and informatics, Sofia University, Bulgaria
SEP 2008 – JUN 2009	<i>Jury, organizer, tester and author of the problems in</i> Online programming tournament, Musala Soft, Bulgaria
SEP 2008 – JUN 2009	<i>Author of problems in all BULGARIAN TOURNAMENTS IN INFORMATICS</i> <i>Lecturer in the NATIONAL INFORMATICS CAMPS</i> National Committee in Informatics, Bulgarian Ministry of Education
JUL 2007 – SEP 2007	<i>Developer of a bin-packing genetic algorithm for glass cutting optimization</i> Telepol Net, Bulgaria // <i>my first algorithm in production</i>

AWARDS

the competitions are National Bulgarian if nothing else stated

1 st place	“MINKO BALKANSKI” COMPETITION IN INFORMATICS ’08
11 th place	TOPCODER HIGH SCHOOL FINALS, West Lafayette, USA ’08
1 st place	AUTUMN TOURNAMENT IN INFORMATICS ’07
1 st place	Student Competition for the DEAN’S CUP OF SOFIA UNIVERSITY ’07
2 nd place	INTERNATIONAL YOUNG PHYSICISTS TOURNAMENT (<i>regional, in team</i>) ’06
1 st place	“RUMEN GROZDANOV” INFORMATICS AND MATHEMATICS TOURNAMENT ’06
1 st 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

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- Solve algorithmic problems // [TOPCODER](#), [TIMUS](#), [ROSALIND](#)
 - Open the mind and the source // [GitHub profile](#)
 - Speak English, Russian and Bulgarian
 - Founded a project for describing educational systems by students // [students-abroad.info](#)
 - Love to dance, hike, bike, orienteer and run long
 - // [42.195km in 3:43h](#) – Zelenograd, Russia, Dec 2011
 - // [100km in 13:19h](#) – Vitosha mountain, Bulgaria, Jul 2012