

Petar I. Ivanov

Born: 29 MAY 1989 in Shumen, Bulgaria
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EDUCATION

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| 2014 <i>(graduated all semesters)</i> | Bachelor degree in COMPUTER INFORMATICS <i>Faculty of Mathematics and Informatics</i> Shumen University , Bulgaria |
| 2009 – 2013 <i>(interrupted by visa issues)</i> | Specialist degree (joint Bachelor & Master) in APPLIED MATHEMATICS AND INFORMATICS Major in Computer vision at GRAPHICS & MEDIA LABORATORY <i>Faculty of Computational Mathematics and Cybernetics</i> Moscow State University , Russia |
| 2011 – 2013 | Student in a continuing BIOINFORMATICS school Yandex's School of Data Mining , Russia |
| 2008 – 2009 <i>(entered to Moscow University after the first year)</i> | Bachelor degree in COMPUTER SCIENCE <i>Faculty of Mathematics and Informatics</i> Sofia University , Bulgaria |
| 2000 – 2008 | Mathematics and Physics class <i>Graduated with honors</i> High school of Natural Sciences and Mathematics , Shumen, Bulgaria |

Additional:

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| 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

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| NOV 2013 – NOW | <i>Training high-school students for informatics competitions</i> Mathematics and Informatics Private School “A&B” |
| NOV 2013 – JAN 2014 | <i>Assisting with an online course of bioinformatics on Coursera</i> supervised by Dr. Pavel Pevzner University of California, San Diego |
| JUL 2013 – AUG 2013 | <i>Implementing of a new feature in SPAdes (an open source genome assembler) – presentation</i> supervised by Dr. Pavel Pevzner, Algorithmic Biology Lab St. Petersburg Academic University of the Russian Academy of Sciences (bioinf.spbau.ru) |
| SEP 2012 – JUN 2013 | <i>Programming of cellular/populational models</i> supervised by prof. Konstantin Severinov, Molecular Genetics of Microorganisms Lab Institute of Gene biology, Russian Academy of Sciences (genebiology.ru) |
| JUL 2012 – AUG 2012 | <i>Researcher on verification of probabilistic biological models</i> supervised by prof. Martin Vechev, Software Reliability Lab ETH Zurich (srl.inf.ethz.ch), Switzerland |
| JUL 2011 – AUG 2011 | <i>Open source developer of local topological operators on tetrahedral meshes</i> Computational Geometry Algorithms Library (CGAL) (cgal.org) Google Summer of Code (code.google.com/soc) |
| AUG 2010 | <i>Lecturer of school students</i> Russian Summer Informatics Camp (lksh.ru), Saratov, Russia |
| 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> ON-LINE PROGRAMMING TOURNAMENT (konkurs.musala.com) Musala Soft, Sofia, 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 (http://telepol.net/telepol.net/), Shumen, Bulgaria |

AWARDS

the competitions are National Bulgarian if nothing else stated

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

INFORMATION TECHNOLOGIES

Languages: C/C++ (STL), Python (NumPy, SciPy, Matplotlib), Ruby, MATLAB, Java, Pascal
Technologies: Unix, Bash, Vim, Git, HTML/ CSS, \LaTeX
Algorithms: Graphs, Strings, Dynamic Programming, Geometry, Optimization (+Data structures)

SPOKEN LANGUAGES

ENGLISH: Upper-Intermediate (*certified*)
RUSSIAN: Fluent (*certified*)
BULGARIAN: Native

ACTIVITIES

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- Interested in Bioinformatics, Synthetic biology, Combinatorial Optimization, Computer Vision, Computational Geometry, Genetics, Machine Learning, Robotics
 - Solving algorithmical problems ([TOPCODER](#), [TIMUS](#), [ROSALIND](#))
 - Getting open sourced ([GitHub profile](#))
 - Founder of the [students-abroad.info](#) project for describing foreign educational systems by Bulgarians studying abroad
 - Enjoying national Bulgarian dances and classical ballroom dances.
 - Practicing hiking, orienteering, long-distance running (*personal records*: 42.195km in 3:43h – [Zelenograd, Russia, Dec 2011](#); 100km in 13:19h – [Vitosha mountain, Bulgaria, Jul 2012](#))