Petar Ivanov

Born: 29 MAY 1989 in Shumen, Bulgaria

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SUMMARY

Bachelor graduate with solid background in algorithms and data structures. Winner of multiple programming competitions. Did several research internships. Enjoys teaching and communicating science.

SKILLS

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

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

Tools: Unix, Bash, Vim, Git, LareX
Natural languages: English, Russian and Bulgarian

EDUCATION

SEP 2013 – SEP 2014 (exp.) (graduated all semesters)	Bachelor degree in Computer Informatics Shumen University, Bulgaria
SEP 2011 — JUN 2013	Master degree (not accredited) in Bioinformatics // + taught algorithms to biologists Yandex School of Data Mining, Moscow, Russia
SEP 2009 — JUN 2013 (interrupted by visa issues)	Specialist degree (equivalent to Master) in Applied Mathematics and Informatics Moscow State University, Russia // more calculus
SEP 2008 — JUN 2009 (moved to Moscow University)	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, 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

INTERNSHIPS

JUL 2013 — AUG 2013	Summer internship on SPAdes open source genome assembler // chimera presentation: [PDF] // proof of concept demonstrated: replication bugs to enhance assembly in open source assembler supervised by Dr. Pavel Pevzner, Algorithmic Biology Lab, St. Petersburg Academic University
SEP 2012 — Jun 2013	Microbiological models designer // microcin antibiotic model: [Summary] Institute of Gene biology, Russian Academy of Sciences
JUL 2012 — AUG 2012	Research internship on verification of probabilistic biological models // proposed own topic on virus-bacteria interaction: [Summary] supervised by Prof. Martin Vechev, Software Reliability Lab, ETH Zurich
Jul 2011 – Aug 2011	Computational Geometry Algorithms Library (CGAL) internship Google Summer of Code // implemented topological operators on tetrahedral meshes
JUL 2007 — SEP 2007	Developer of a bin-packing genetic algorithm for glass cutting optimization <i>Telepol Net, Bulgaria</i> // appreciating evolution and first algorithm in production

TEACHING

Nov 2013 — Jun 2014	Students informatics competitions trainer // sketching an algorithmic textbook Mathematics and Informatics Private School "A&B", Shumen, Bulgaria
Nov 2013 — Jan 2014	Technical Assistant in a <i>Coursera</i> bioinformatics course // lectures editing, forum explanations supervised by Dr. Pavel Pevzner, University of California, San Diego
AUG 2010	Lecturer at school students informatics camp // the best informatics camp Russian Summer Informatics Camp, Saratov
Mar 2008 — Jun 2009	Assistant in "Design and Analysis of Algorithms" course // had seminars with my own group 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
Sep 2008 — Jun 2009	Author of problems in all Bulgarian Tournaments in Informatics Lecturer in the National Informatics Camps National Committee in Informatics, Bulgarian Ministry of Education

1 st 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