Petar I. Ivanov

E-mail: peter.ivanov89@gmail.com
Website: pesho.info

EDUCATION

2014 *(graduated all semesters)*	Bachelor degree in COMPUTER INFORMATICS *Faculty of Mathematics and Informatics* **Shumen University**, Bulgaria
2011 — 2013	Student in a continuing BIOINFORMATICS school **Yandex School of Data Mining**, Russia
2009 — 2013 *(interrupted by visa issues)*	Specialist degree (joint Bachalor & Master) in APPLIED MATHEMATICS AND INFORMATICS Major in Computer vision at GRAPHICS & MEDIA LABORATORY *Faculty of Computational Mathematics and Cybernetics* **Moscow State University**, Russia
2008 — 2009 *(enrolled in Moscow University after the first year)*	Bachelor degree in COMPUTER SCIENCE *Faculty of Mathematics and Informatics* **Sofia University**, Bulgaria
2000 — 2008	Mathematics and Physics class *Graduated with honors* **High school of Natural Sciences and Mathematics**, Shumen, 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	*Training high-school students for informatics competitions* **Mathematics and Informatics Private School "A&B"**, Bulgaria
NOV 2013 — JAN 2014	*Technical Assistant an online course of bioinformatics on Coursera* supervised by Dr. Pavel Pevzner **University of California, San Diego**
JUL 2013 — AUG 2013	*Software Developer of a new feature in SPAdes, open source genome assembler — presentation* 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	*Programming of microbiological models* supervised by prof. Konstantin Severinov, Molecular Genetics of Microorganisms Lab **Institute of Gene biology, Russian Academy of Sciences** (genebiology.ru)
JUL 2012 — AUG 2012	*Researcher on verification of probabilistic biological models* supervised by prof. Martin Vechev, **Software Reliability Lab** **ETH Zurich** (srl.inf.ethz.ch), Switzerland
JUL 2011 — AUG 2011	*Open source developer of local topological operators on tetrahedral meshes* **Computational Geometry Algorithms Library (CGAL)** (cgal.org) **Google Summer of Code** (code.google.com/soc)
AUG 2010	*Lecturer at school students informatics camp* **Russian Summer Informatics Camp** (lksh.ru), Saratov, Russia
MAR 2008 — JUN 2009	*Assistant in "DESIGN AND ANALYSIS OF ALGORITHMS" course* **Faculty of mathematics and informatics, Sofia University**, Bulgaria
SEP 2008 — JUN 2009	*Jury, organizer, tester and author of the problems in* ON-LINE PROGRAMMING TOURNAMENT (konkurs.musala.com) **Musala Soft**, Sofia, Bulgaria
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**
JUL 2007 — SEP 2007	*Developer of a bin-packing genetic algorithm for glass cutting optimization* **Telepol Net** (http://telepol.net/telepol.net/), Shumen, Bulgaria

Awards

Ist place	"Minko Balkanski" Competition in Informatics '08
XIth place	TopCoder High School Finals, West Lafayette, USA '08
Ist place	Autumn Tournament in Informatics '07
Ist place	Student Competition for the Dean's cup of Sofia University '07
IInd place	International Young Physicists Tournament *(regional, in team)* '06
Ist place	"Rumen Grozdanov" Informatics and Mathematics Tournament '06
Ist 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
Technologies:	Unix, Bash, Vim, Git, LaTeX
Algorithms:	Graphs, Strings, Dynamic Programming, Geometry, Optimization (+Data structures)

Spoken languages

English:	Upper-Intermediate
Russian:	Fluent
Bulgarian:	Native

Activities

- Interested in Bioinformatics, Synthetic biology, Combinatorial Optimization, Computer Vision, Computational Geometry, Genetics, Machine Learning, Robotics
- Solving algorithmic 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
- Practising traditional Bulgarian dances and classical ballroom dances.
- Practising 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)