Petar Ivanov

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Summary

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 *(graduated all semesters)*	Bachelor degree in **Computer Informatics** Shumen University, Bulgaria
SEP 2011 — JUN 2013	Master degree *(not accredited)* in **Bioinformatics** // I also taugh 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 in 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, 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 // sketched an algorithmic textbook *Mathematics and Informatics Private School "A&B"*, Shumen, Bulgaria
Nov 2013 — Jan 2014	Technical Assistant of online bioinformatics **Coursera** course *supervised by Dr. Pavel Pevzner*, University of California, San Diego
Jul 2013 — Aug 2013	Summer internship on SPAdes genome open source assembler // presentation // proof of concept: used replication bugs to enhence assembly in opensource assembler *supervised by Dr. Pavel Pevzner*, **Algorithmic Biology Lab**, Petersburg Academic University
Sep 2012 — Jun 2013	Microbiological models designer *supervisor: prof. Konstantin Severinov*, Institute of Gene biology, Russian Academy of Sciences
Jul 2012 — Aug 2012	**Researcher internship** on verification of probabilistic biological models // summary supervised by Prof. Martin Vechev, Software Reliability Lab, ETH Zurich
Jul 2011 — Aug 2011	**Google Summer of Code** internship // implemented topological operators on tetrahedral meshes Computational Geometry Algorithms Library (CGAL)
Aug 2010	*Lecturer at school students informatics camp* **Russian Summer Informatics Camp**, Saratov
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* **Online programming tournament**, **Musala Soft**, 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**, Bulgaria // my first algorithm in production

Awards

1st place	"Minko Balkanski" Competition in Informatics '08
11th 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
2nd 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

- 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