Pesho Ivanov

PASSPORT: PETAR IVANOV

AUG 2007

2004 - 2007

2001 - 2008

BORN: 29 MAY 1989 IN SHUMEN, BULGARIA

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SUMMARY

PHD STUDENT AT ETH ZURICH WITH STRONG BACKGROUND IN COMPUTATIONAL BIOLOGY, ALGORITHMS AND DATA STRUCTURES. ALWAYS ENJOYED INFORMATICS COMPETITIONS. Worked as a Software engineer at Google. Loves teaching and communicating science.

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EDUCATION	
Apr 2017 — Nov	PHD STUDENT ON Reliable Computational Biology Prof. Martin Vechev's Secure, Reliable, and Intelligent Systems Lab (SRI) COMPUTER SCIENCE DEPARTMENT
	ETH Zurich, Switzerland
Apr 2015 — Feb 201	7 MASTER DEGREE IN Software Engineering (extra-mural)
	THESIS: Framework for Genomic Reconstruction Algorithms
	Shumen University, Bulgaria
Jun 201	4 BACHELOR DEGREE IN Computer Informatics
	Shumen University, Bulgaria
	↑TRANSFERRED BECAUSE OF A CRAZY BAN FROM ENTERING RUSSIA
SEP 2009 — JUN 201	
(interrupted by visa issue	s) Moscow State University, Russia calculus, Computer vision
Sep 2008 — Jun 200	9 BACHELOR DEGREE IN Computer science # + LED SEMINARS IN ADVANCED ALGORITHMICS
(left to Moscov	SOFIA UNIVERSITY, BULGARIA // MAINLY DISCRETE MATHS
Sep 2000 — Jun 200	8 MATHEMATICS AND PHYSICS PROFILE #AWARD FOR MOST SCIENTIFIC ACHIEVEMENTS OF HIS YEAR SHUMEN HIGH SCHOOL OF SCIENCES, BULGARIA
Additional:	
SEP 2011 — JUN 2013	MASTER DEGREE (not accredited) IN Bioinformatics # + TAUGHT ALGORITHMS TO BIOLOGISTS YANDEX SCHOOL OF DATA MINING, MOSCOW, RUSSIA
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

PHYSICS CAMP, PANITSITE, BULGARIA #3 WEEKS OF MATHS AND PHYSICS

SUMMER RESEARCH INFORMATICS CAMP, VARNA, BULGARIA | 2-WEEK PROBLEM SOLVING MATHEMATICS AND INFORMATICS PRIVATE SCHOOL "A&B", SHUMEN, BULGARIA

INTERNSHIPS

Jun 2016 — Mar 2017	BIOINFORMATICS INTERNSHIP ON SINGLE-CELL TRANSCRIPTOMICS LYMPHOMA PATIENTS Prof. Martin Vechev, Software Reliability Lab, ETH Zurich PD Dr. Emmanuella Guenova, Dermatology Clinic, University of Zurich
JUL 2013 — AUG 2013	Summer internship on SPADES open source genome assembler #chimeras presentation #proof of concept: replication bugs to enhance assembly in open source assembler Prof. Pavel Pevzner's, Algorithmic Biology Lab, St. Petersburg Academic University
SEP 2012 — JUN 2013	MICROBIOLOGICAL MODELS DESIGNER // MICROCIN MODELLING Prof. Konstantin Severinov's lab, Institute of Gene biology, Russian Academy of Sciences
JUL 2012 — AUG 2012	RESEARCH INTERNSHIP ON PROBABILISTIC VERIFICATION OF BIOLOGICAL MODELS / INSISTED ON MY OWN TOPIC ON VIRUS-BACTERIA INTERACTION [SUMMARY] Prof. Martin Vechev's, 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

SEP 2015 AND	SUPERVISOR OF HIGH SCHOOL STUDENTS
SEP 2018	Science&Arts school "Science Xplore", VISEU, PORTUGAL
Nov 2013 –	INFORMATICS COMPETITIONS TRAINER FOR HIGH SCHOOL STUDENTS
Jun 2014	Mathematics and Informatics Private School "A&B", SHUMEN, BULGARIA
Nov 2013 –	TEACHING ASSISTANT IN A Coursera BIOINFORMATICS COURSE
JAN 2014	Prof. Pavel Pevzner, University of California, San Diego
AUG 2010	LECTURER AT SCHOOL STUDENTS INFORMATICS CAMP # STRONGEST RUSSIAN COMPETITORS
	Russian Summer Informatics Camp, Saratov
Mar 2008 –	Teaching Assistant in "Design and Analysis of Algorithms" course
Jun 2009	Faculty of mathematics and informatics, Sofia University, BULGARIA
SEP 2008 —	AUTHOR OF THE PROBLEMS IN ONLINE PROGRAMMING TOURNAMENT
lun 2009	Musala Soft, Bulgaria // Mainly discrete optimization problems
JON 2009	Wasaia Sole, balgaria William Bisekere of Hill 24 Holy PROBLEMS
2008 - 2009	AUTHOR OF PROBLEMS FOR BULGARIAN TOURNAMENTS IN INFORMATICS
2013 - 2014	LECTURER AT NATIONAL INFORMATICS CAMPS
	National Committee in Informatics, Bulgarian Ministry of Education

INDUSTRY

SEP 2014 —	Software Engineer at Search \supset Knowledge \supset Infrastructure
Jan 2016	Google Zurich

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 (regional, in team) '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

GENERAL SKILLS

ALGORITHMS: GRAPHS, COMBINATORICS, STRINGS, GEOMETRY, OPTIMIZATION, DYNAMIC PROGRAMMING

PROGRAMMING: C/C++ (STL), PYTHON (NUMPY, SCIPY, MATPLOTLIB), RUBY, MATLAB

Tools: Unix, Bash, Vim, Git, 上上X Speaks: English, Russian, Bulgarian

ACTIVITIES

• SOLVES ALGORITHMIC PROBLEMS

#TOPCODER, TIMUS, ROSALIND

- LOVES OPEN-SOURCE
- ENJOYS HIKING, BIKING, DANCING, PARAGLIDING AND RUNNING

42.195km in 3:43h, Zelenograd, Russia, Dec 2011 # 100km in 13:19h, Vitosha mountain, Bulgaria, 2012