

# Georgi P Peev

## Current Address

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**OBJECTIVE** Find a challenging permanent job with emphasis on using computer/software engineering as a means of implementation and development of interesting ideas in a relatively large, international company.

**EDUCATION** **Massachusetts Institute of Technology** Cambridge, MA  
Completed a BSc in Computer Science, June 2003. GPA: 4.9/5.0. Courses include Probabilistic Systems Analysis, Artificial Intelligence, Software Engineering of Innovative Web Services, Digital Systems Laboratory, Computer Graphics, Computer System Engineering, Computer Language Engineering, Numerical Simulations, and Networks. Completed all coursework for MEng in Computer Science, but not thesis requirement.

**École Polytechnique** Paris, France  
Participated in the MIT/France student exchange program from Jan '02 to Mar '02. Studied informatics for one semester at one of the top French engineering schools. Courses included Cryptography, Algorithm Analysis, Parallel Computing, and Operational Systems. GPA: 5.0/5.0.

**Sofia University, Faculty of Mathematics and Informatics** Sofia, Bulgaria  
Studied Informatics from Sept. '96 to June '97. Rank: top 5%. GPA: 5.0/5.0. Classes taken: Mathematical Analysis, Discrete Mathematics, Graph Theory, Computer Architectures, and Mathematical Optimization.

**Romain Rolland English Language High School** Stara Zagora, Bulgaria  
Sept. '91–May '96. Rank: top 5%. GPA: 4.9/5.0.

## SKILLS

### Computer Platforms

Windows 3.11/95/98/NT/XP, UNIX, Linux, BeOS, MS-DOS.

### Programming Languages

Java, C, C++, Visual C++, HTML, PHP, XML, OpenGL, Pascal, Basic, Logo, Lisp (Scheme), SKILL, Prolog, VHDL, Assembler (6502, 80x86, IBM 360, VAX, Alpha).

### Spoken Languages

Native speaker of Bulgarian, fluent in English and Russian, conversant in French, German, and Serbian.

**EXPERIENCE** **Sofia University** Sofia, Bulgaria  
Sep '07 - present. Taught classes in the Department of Mathematics and Informatics, including Discrete Mathematics, Algorithm Design and Analysis, and Network Programming.

**Lehman Brothers** New York, NY  
June '05 - May '07. Worked on a proprietary equity trading tool, mainly on the server side. Developed trading and order handling algorithms working directly with quantitative analysts on the trading floor.

**Lime Brokerage LLC** New York, NY  
August '03 - May '05. Employed as a software developer in a brokerage company specialized in providing high-speed electronic security trading capabilities for a number of markets, such as NYSE, AMEX, Nasdaq, and ECNs. Worked on speed-critical, high-performance and availability software for handling large amounts of trading data.

**Sofia University** Sofia, Bulgaria  
Spring '03. Taught a class called "Advanced Design and Analysis of Computer Algorithms" jointly with two other lecturers. Duties included preparing lectures, exams, and a final project, as well as grading.

**MIT** Cambridge, MA  
Fall '02. Worked as a teaching assistant for 6.042 (Mathematics for Computer Science). Duties included encouraging communication and cooperation among two groups of 10 students each, grading problem sets and exams, and helping prepare lecture notes and write problems.

**nVidia** Santa Clara, CA  
Summer '02. Worked on different projects in the architecture group of the company. Developed an OpenGL back-end for a T&L performance simulator, then worked on other proprietary tools.

**Qualcomm** San Diego, CA  
Summer '01. Worked on a C compiler for Qualcomm's VLIW DSP. Wrote mainly loop optimizations, including loop-invariant code motion and induction variable optimizations.

**Qualcomm** San Diego, CA  
Summer '00. Developed software for regression testing of analog devices in SKILL under Cadence's Design Framework environment, which was then included in version 1.6 of Qualcomm's proprietary expansion of the tool.

**MIT LCS** Cambridge, MA  
'99-'01. Research assistant. Developed various optimizing compiler passes for a SUIF backend for the RAW machine architecture, including a strength reducer and a peephole optimizer.

**MIT LCS** Cambridge, MA  
Fall '98. UROP. Research assistant. Developed algorithms and wrote routines for the detection phase of a parallelising C compiler pass in SUIF.

**MIT Department of Mathematics** Cambridge, MA  
Fall '98. UROP. Research assistant. Created programs in C for the study of the pivot patterns of Hadamard matrices of rank 16 and 20, which confirmed that there are only 4 such patterns.

**Software Projects** Stara Zagora, Bulgaria  
1993-1994. Wrote general database, store management, and banking software for Metropol Ltd.  
1994-1996. Developed software for control of compact disk production for NanoCom Ltd., Russia.  
1996, 1997. Worked as a jury member on the Bulgarian National Olympiad in Informatics.

**ACHIEVEMENTS** Various medals from several International and Balkan Olympiads in Informatics and top places at National Olympiads in Informatics in Bulgaria, 1993-1995.  
Member of the HKN honor society.

**PUBLICATIONS** Srikrishna, Devabhaktuni, Darin Petkov, Georgi Peev, and Saman Amarasinghe. *Softspec: Software-based Speculative Parallelism via Stride Prediction*, November 1998. <http://citeseer.nj.nec.com/502928.html>

**BACKGROUND** Born and raised in Bulgaria. Interests include programming, Rubik's cube, photography, playing basketball, skiing, snowboarding, rock climbing, and street hockey.

**VISA STATUS** Citizen of Bulgaria. Previous holder of an H-1B visa.