

Yavor Stoychev

Education

- Aug 2008 - Dec 2012 **Bachelor of Arts in Computer Science, Economics**, *American University in Bulgaria*, Blagoevgrad, Bulgaria, *3.49/4*.
Minor in Mathematics. Dean's List for Fall 2008.
- Aug 2011 - May 2012 **Bulgarian Young Leaders Program**, *Rochester Institute of Technology*, Rochester, NY, *3.73/4*.
Dean's List for the duration of studies. Took courses in Economics, Computer Science, and Mathematics.
- Apr 2011 - Jul 2011 **Erasmus Student**, *Otto-von-Guericke University*, Magdeburg, Germany.
Took courses in Computer Science and Economics.
- Sep 2003 - May 2008 **High School Diploma**, *First English Language School*, Sofia, Bulgaria, *5.75/6*.
Certificate of Excellence.

Experience

- Oct 2013 - **Software Development Engineer**, *Amazon.com*, Seattle, WA, United States.
Working with the Global Supply Optimization team to develop enterprise-grade, highly scalable systems that optimize Amazon's supply chain and save its customers millions of dollars worth of shipping costs.
- Jun 2013 - Sep 2013 **Senior Software Developer**, *Transmetrics*, Sofia, Bulgaria.
Developing an innovative IT product, which allows shipping companies to gain a critical few % of capacity utilization, by finding and fixing the biggest problems first. I am leading the development of the user interface using Java Server Faces, HTML, and JavaScript.
- Sep 2012 - Feb 2013 **Software Development Engineer Intern**, *Amazon.com*, Seattle, WA, United States.
Developed a system for monitoring inventory shuffles in Java, HTML5, and JavaScript. The system receives input from downstream systems and records relevant data in a SQL database. This data is then analyzed and the resulting costs or savings are calculated and displayed on a web portal.

Courses

- Computer Science Software Development Using C++, Fundamentals of Programming Languages, Database Systems, Assembly Language Programming, Computer Architecture, Object Oriented Languages, Fundamental Data Structures, Software Engineering, Algorithms, Advanced Database Models, Cyber Defense Techniques, User Interface Engineering, Information Security, Data Warehousing and Data Mining
- Economics Principles of Macroeconomics, Principles of Microeconomics, Money and Banking, International Trade, International Finance, Quantitative Methods in Economics, Intermediate Macroeconomics, Intermediate Microeconomics, Econometrics, Economic Forecasting, Natural Resource Economics, Comparative Economic Systems
- Mathematics Elementary Linear Algebra and Analytical Geometry, Calculus I - III, Differential Equations, Numerical Analysis

Senior Project: Computer Science

- Title *TAGS: A Graph-based Social Network*
- Supervisors Prof. Volin Karagiozov
- Description An extensible social network framework implemented in Java using the Neo4j graph database.

Selected Projects: Computer Science

- Ruby on Rails, JS Books on Rails: A next-generation library management system
- C++ A student database with a command-line interface backed by a Binary Search Tree
- C# A simple sudoku solver
- PHP, SQL, HTML Database Explorer: A web-based tool for database management
- Python, GTK Sharescanner: A tool for indexing and downloading files from Samba shares

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Last updated on October 15, 2013. For updates, please visit my website. References available upon request.

Assembly, C	An application for encrypting and decrypting text using the XOR operator
UML, Teamwork	Lead a team of four to design an interactive racing game written in Java
UML, Teamwork	Worked in a team of four to design a touch-based 3D modeling application based on Blender

Papers: Economics

- 2012 Stoychev, Yavor. Determinants of New Car Prices in the U.S. [Economic Forecasting]
- 2011 Stoychev, Yavor. Hydrofracking: Rights, Risks, and Challenges [Natural Resource Economics]

Languages

Bulgarian	Native	
English	Full Proficiency	<i>TOEFL: 115/120</i>
German	Working Proficiency	<i>B1</i>

Skills: Computer Science

Languages	IA-32 Assembly, C, C++, Java, Perl, Python, Ruby, HTML5, JavaScript, SQL, PHP, UML
IDEs	Eclipse, Netbeans, MS Visual Studio
Version Control	Git, Subversion
Build Tools	Ant, Maven, GCC
Services	Apache Web Server, Apache Tomcat, Jetty, Nginx, OpenVPN, MySQL, Oracle, Samba
Libraries	GTK, QT, Spring, Neo4j, JUnit, jQuery, Hibernate
Operating Systems	{Debian, Ubuntu, Arch, Fedora, Red Hat Enterprise, CentOS} Linux, *BSD

Skills: Economics

Software	Stata, Matlab
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Selected Activities

- 2012 - Present Member, Association of Bulgarian Leaders and Entrepreneurs
- 2011 - 2012 Member, Free and Open Source Group at RIT
- 2009 - 2011 Member, Freakonomics Club at AUBG
- 2008 - 2012 Member, Computer Science Student Union at AUBG

Selected Achievements

- 2012 Certificate, American Institute on Political and Economic Systems in Prague, Czech Republic
- 2011 Fourth place at the U.S. Northeastern Regional ACM Programming Competition
- 2011 Selected to participate in the Cyber Defense Techniques Seminar at RIT
- 2010 Bulgarian Young Leaders Award. Placed at the Rochester Institute of Technology
- 2010 Selected for Erasmus Exchange at Otto-von-Guericke University for Spring 2011
- 2010 America for Bulgaria Foundation Scholarship
- 2009 Lou Hill Davidson and Ralph Davidson Scholarship
- 2008 Certificate for Participation, 50th Anniversary Concert of the First English Language School
- 2008 Certificate of Merit for Contributions to the School Brass Band
- 2006 Prize, "Physics through my Eyes" Student Conference in Yambol, Bulgaria

Hobbies and Interests

Computer Science	Algorithms, Operating Systems, Distributed Systems and Services
Economics	Economic Policy, International Economics, Economic Forecasting
Mathematics	Discrete Mathematics, Differential Equations
Sports	Volleyball, Swimming, Skiing, Tennis
Outdoor	Hiking, Camping, Travelling, Photography
Music	Piano, Clarinet, Guitar Playing

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