

Yavor Stoychev

Experience

- Apr 2015 - **Co-founder, Software Architect**, *Perpetto.com*, Sofia, Bulgaria.
Building the eCommerce personalization software with 1 usability. Highly scalable and fault-tolerant, built on top of Hadoop, Spark, and Elasticsearch. We process millions of events to show each visitor on your eCommerce site products that are relevant to them.
- Oct 2015 - Dec 2015 **Software Development Engineer II**, *Amazon.com*, Seattle, WA, United States.
Working with the Global Fulfillment Optimization team to develop systems to dynamically schedule trucks to that fulfill Amazon orders in a fast and affordable fashion.
- Oct 2013 - Oct 2015 **Software Development Engineer**, *Amazon.com*, Seattle, WA, United States.
Working with the Global Fulfillment 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 **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.

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.

Favorite Tools

Languages	Java, Scala, Ruby, Python, HTML5, JavaScript, C
Frameworks	Rails, Spring, AngularJS, NodeJS
Big Data	Octave, Spark, Hadoop, Elasticsearch, Matlab
IDEs	Atom, Eclipse
Build / Deployment	Make, Maven, SBT, Grunt, Ansible, Docker
Services	Nginx, Tomcat, Unicorn, Hbase, Cassandra, Elasticsearch, Postgres
Operating Systems	{Debian, Ubuntu, Arch, Fedora, Red Hat Enterprise, CentOS} Linux

Languages

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

Selected Activities

- 2013 - Present Member, Association of Software Engineers - Bulgaria

2012 - Present	Member, Association of Bulgarian Leaders and Entrepreneurs
2011 - 2012	Member, Free and Open Source Group at RIT
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

Senior Project: Computer Science

Title	<i>TAGS: A Graph-based Social Network</i>
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
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

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

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]

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