Ilya Bykov

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EDUCATION

05/2015 – 11/2015	**AFW Wirtschaftsakademie Bad Harzburg GmbH,** www.afwbadharzburg.de/ *GPA – 5,00 / 5 (among top 1% of students)* Diploma of project manager
03/2010 – 03/2014	**Peter the Great St. Petersburg Polytechnic University,** St. Petersburg, Russia Department of Computer Systems & Software Engineering, Postgraduate Major: System analysis, management and processing
09/2004 – 02/2010	**Peter the Great St. Petersburg Polytechnic University,** St. Petersburg, Russia *(№7 University in Russia by QS 2015; №2 University in Russia by THE 2016)* Master degree in Computer Science Major: Computers, complexes, systems and networks

ADDITIONAL TRAINING AND ACADEMIC EXPERIENCE

Completed more than 10 courses, most important of which:
- Design Patterns (Luxoft). Course in software design
- Qt Essentials (Nokia). Certification on the Qt library
- C++ Programming/Memory Management (Geekbrains)
- DEV-PYTHON. Program development in Python (St. Petersburg Polytechnic University)
- UNIX-ARCH. UNIX architecture (Linux/FreeBSD) (St. Petersburg Polytechnic University)
- Machine Learning course by Stanford University (www.ml-class.org)
- AUT20. Vijeo Citect™ SCADA Software (Schneider Electric)
- AUT24. Programming language Cicode for Vijeo Citect (Schneider Electric)

Participation in international and all-Russian research conferences:
- XXVII week of Science SPbSTU (http://week-science.spbstu.ru/, St. Petersburg, 2009)

Presented paper "Research and algorithmization ARIMA method for predicting health indicators"
- Scientific and technological means to ensure energy saving and energy efficiency in the Russian economy (St. Petersburg, 2011)

Presented paper "Modelling and Analysis of Electric Power network, an adequate active power flow control problem in the transmission line"
- XLI week of Science SPbSTU (http://week-science.spbstu.ru/, St. Petersburg, 2012)

Presented paper "Synthesis automatic active power flow control algorithm in the energy unions"
- "Sudostroenie" magazine (http://www.sstc.spb.ru/upload/iblock/942/sud-_5-2017.pdf, 2017)

Presented paper "Estimating common longitudinal strength of ship hull in combat and routine conditions using shipboard damage control system"

WORK EXPERIENCE

09/2019 – till present	**Software Development Manager / Search R&D Director,** **Huawei,** St. Petersburg, Russia, www.huawei.com *(The largest telecommunications-equipment manufacturer and second-largest manufacturer of smartphones in the world)* • Creating a team (over 100 highly qualified Developers and Data Scientists) from scratch;

- Development of a search quality evaluation system from scratch;
- Deployment of a search infrastructure in Russia to build a ranking system;
- Work in a Scrum environment and implementing best practices in team work;
- Representation of the company at major conferences as a speaker and in negotiations with other companies, partners;
- Collaboration with other international search teams of the company to create a high-quality search engine

Keywords: C++, Java, Python, Redis, Elastic Search, Hadoop, ML, Atlassian stack, Scrum

10/2016 – 09/2019

Software Engineer Team Lead in the Software Development Department
Sea project, St. Petersburg, Russia, http://www.seaproject.ru/
(*The leader in the development and implementation of solutions for life cycle management and safe operation of industrial facilities, military equipment, engineering systems and technical equipment*)
- Manage two teams of Software Engineers (8 programmers, 2 testers and 1 analyst) in a SCRUM environment, including iteration and task planning;
- Responsible for the overall planning, execution and success of complex technical projects. As a result, in 2018 over 75% of all newly manufactured ships were equipped with Sea Project software;
- Participate in code reviews and contribute to team and personal learning;
- Develop and implement complex algorithms for calculation ships floodability;
- Redesigned the previous version of the product to double functionality by implementing floodability and competency modules. The product succeeded to the top-1 of the market;
- Transformation of business tasks into a technical task, understandable to developers;
- Interact with other departments, contractors and customers.

Keywords: C++, Qt, Algorithms, Math, PostgreSQL, Jenkins, Atlassian stack, Scrum

04/2011 – 10/2016

Senior C++ Software Developer/Product manager in the Information-Analytical Department
NTT, St. Petersburg, Russia, http://www.nppntt.ru/
(*The leading company in the Russian market providing customized IT solutions for the telecommunications segment*)
- Developed and implemented complex algorithms for processing text
- Managed changes to the project scope, project schedule, and project costs using Agile software development
- Interacted with customers
- Developed a detailed project plan to monitor and track progress

Keywords: C++, Qt, Algorithms, Math, OpenCV, Text Mining, COM(OLE), Cognitive OpenOCR, Java, Play framework, Sphinx, Solr.

10/2009 – 10/2010

C++ Software developer in the Department of industrial automation
Nordinkraft AG, St. Petersburg, Russia, www.nordinkraft.de/
(*The Company specializes in developing, manufacturing and implementation of systems for controlling metallurgical processes*)
- Analytical systems design and creation for metal and metallurgical processes.
- Algorithm design and software development for instrumentation and measurement systems.

Keywords: C++, Algorithms, Math, SQL.

TEACHING

09/2010 – 02/2012

Conducted practical lessons with half the group as a teacher assistant (Peter the Great St. Petersburg Polytechnic University):
- Programming in C ++ (first year)
- Supervisory control and data acquisition (SCADA) systems (last year)

ACTIVITIES

12/2012 – 02/2013

- **SUMIT Startup School 2012**, winners of the St. Petersburg stage of selection
  (*Our project was a platform for trainers, where everyone can put up their courses, and visitors can*

buy the access to their favorite)

02/2014	• **Olympic Games in Sochi 2014, Full-text search project**, Developed and implemented own "full-text search" project for the Olympic Games in Sochi 2014
09/2006 – 02/2011	• **Football tournament**, Organized a university football tournament together with like-minded (the tournament brought together 30 teams from different faculties), later organized matches against the Moscow State University (report from the match was shown on the news).
09/2004 – 02/2011	• **University football team**, Played for the University football team. Three times was recognized as the most valuable player of the University. The double winner of the University Cup championship.

PERSONAL INTERESTS

- I am a big fan of travelling. Among the most memorable journeys are climbing Elbrus, Kamchatka hike, monthly trip to Africa and trip to India;
- I attend seminars, conferences, the most famous among them are Yac (Yandex, the biggest technological conference in Eastern Europe), HDD and ADD (Application Developer Days)
- Participated in the city Olympiads in mathematics and informatics. Taking top positions

SKILLS

- *Languages*: Russian (native), English (upper-intermediate)
- *Computer skills*: MS Office (Excel, Word, Power Point, Outlook, Access, Visio)
- Strong analytical skills developed through studies at high school with Mathematics specialization and University
- Top - 1% on the hackerrank.com (https://www.hackerrank.com/becks)