

Dmitry Bogdanov

Staff Software Engineer at Genesys

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PROFESSIONAL EXPERIENCE

Genesys Telecommunications Laboratories, Saint-Petersburg, RF

Staff Software Engineer

March 2016 to present

- Development of server components for Genesys Web Engagement project. (Spring, JAX-RS Jersey, Concurrency, Maven, Docker, Jenkins)

Speech Technology Center, Saint-Petersburg, RF

Senior Software Developer

July 2013 to February 2016

- Development of highload system for speech recognition, sound processing and tracking. (SOA, Spring, .NET, Concurrency, JNI, JMX, JMS, ActiveMQ, Maven, Ant, PostgreSQL, Riak, Tomcat, Mercurial, Subversion, IntelliJ IDEA, Visual Studio, ReSharper, TeamCity, CentOS)

GGA Software, Saint-Petersburg, RF

Software Developer

February 2012 to July 2013

- Architecture and implementation of workflow processing and visualization system for **Biodatomics** project. (Java, Ruby on Rails, Concurrency, PostgreSQL, Apache Hadoop, Javascript, jQuery, Backbone.js, Git, IntelliJ IDEA and RubyMine)
- PDF parser for highly accurate content-recognition and building HTML-representation of parsed PDF on desktop and mobile platforms for **Bibliorossica** project. (JavaSE, Tomcat, Hibernate, Concurrency, Spring, Spring-MVC, Spring integration, ImageIO, C++, PDF parsing, PostgreSQL, JSP, Javascript, jQuery, Git, IntelliJ IDEA, Eclipse)
- Web-development **I'mScientist** (REST, Ruby on Rails, PostgreSQL, MongoDB, Solr, Javascript, jQuery, Git, Vim and Sublime Text)

Corning Inc., Saint-Petersburg, RF

Engineer

September 2010 to January 2012

- C++11 development (Implementation of CFD solvers for chemically-reacting gas flow in porous media using **OpenFOAM**)
- Designing catalytic convertors and diesel particle filters
- Numerical simulation in ANSYS Fluent and ANSYS CFX

TWELL Company, Saint-Petersburg, RF

Engineer

September 2009 to December 2010

- Theoretical research and numerical simulation of pneumatic breakwaters and interaction between sea waves and bubble plumes
- Development of a physical model applicable for pneumatic breakwaters

PROFESSIONAL
SKILLS

- **Programming Languages:** Java, C#, Ruby, C++, JavaScript
- **Frameworks, libraries and tools:** Spring, JMS, ActiveMQ, JMX, Batis, Maven, Nuget, Ant, JUnit, Ruby on Rails
- **RDBMS:** PostgreSQL, MySQL
- **NoSQL:** Riak, Cassandra, Solr
- **IDE:** In love with IntelliJ IDEA but also familiar with Visual Studio with ReSharper and several editors such as Vim and Sublime Text
- **VCS:** Git, Mercurial, Subversion
- **OS:** MacOS X, Windows, Linux - RedHat (CentOS), Ubuntu

EDUCATION

Saint-Petersburg State Polytechnical University, Saint-Petersburg, RF

Ph.D., Fluid, Gas and Plasma mechanics

- Thesis Topic: *Numerical simulation of heat transfer through spacecraft surface for a weakly ionised hypersonic flow*
- Adviser: Senior Scientist Poniaev S.A.
- Area of Study: Computational Fluid Dynamics, Aerospace, Aerodynamics, Plasma physics

M.S., Applied Mathematics and Physics, July 2012

- Thesis Topic: *Numerical simulation of an air flow inside a cyclone filter and implementation of a Shur-Spalart curvature-correction term for $k - \omega$ SST turbulence model*
- Adviser: Senior Scientist Poniaev S.A.
- Area of Study: Computational Fluid Dynamics, Aerodynamics

B.S., Applied Mathematics and Physics, July 2010

- Thesis Topic: *Numerical simulation of supersonic flows*
- Adviser: Docent Bulovich S.V.
- Area of Study: Computational Fluid Dynamics, Aerodynamics

REFEREED
JOURNAL
PUBLICATIONS

- [1] Bogdanov D.A., Bulovich S.V. Numerical simulation of hypersonic flow over forward-facing step. *International conference of XXXIX science-week SPBSTU materials*. Pages: 20–22. 2010. [Link](#)
- [2] Bogdanov D.A., Poniaev S.A. Numerical simulation of turbulent flow in a cyclonic separator. *Journal of Physics, Conference Series*, Vol. 572, 2014, 012056 [Link](#)
- [3] Bogdanov D.A., Kuznetsov E.A., Poniaev S.A. Effect of plasma non-equilibrium on heat fluxes in high-speed flow. *VIII International Conference of Plasma Physics and Plasma Technology*, 2015 [Link](#)