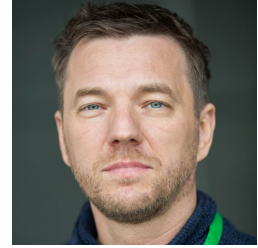


# Yegor Bugayenko



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SCEA and PMP certified software developer and architect with 25+ years of engineering in complex projects and distributed software development teams. Strong background in object-oriented analysis and design with Java, Ruby, and Rust. Took participation in over 150 successful projects, including for Huawei, IBM, Intel, and Expedia. Founder and active contributor of a few open source projects (4K+ GitHub followers). Author of Elegant Objects book series about object-oriented programming, regular speaker at software conferences, regular software blogger and vlogger, part-time teacher in HSE and Innopolis universities.

## Hands-on Coding Expertise (all open source)

EO (new programming language): Java, XML, XSLT, ANTLR4.

Zold (non-Blockchain cryptocurrency): Ruby, HTTP, Encryption.

Takes (web framework): Java, XML/XSLT, HTTP, Maven, JUnit.

Jare (free instant CDN): AWS CloudFront/DynamoDB, Java 8.

Rultor (DevOps assistant): Chatbot, Docker, GitHub API, AWS EC2/S3.

SixNines (availability monitoring): Ruby, Sinatra, Cucumber, XML/JSON.

phpRack (integration testing framework): PHP, jQuery, Phing, PHPUnit.

Tacit (CSS framework): CSS, JavaScript, Grunt.

## Some Recent Projects

2021–. Polystat (Russia): A new static analyzer based on EO and  $\varphi$ -calculus.

2018–. **EO** (Russia): A new object-oriented programming language that re-thinks the very idea of objects and suggests a set of new OOP principles.

2018–. **Zerocracy** (USA): AI-Powered Management Platform. Designed and implemented a software platform for distributed developers; Hosted on AWS with MongoDB, DynamoDB, S3, EC2.

2018–2019. **Zold** (USA): An experimental cryptocurrency for fast micropayments, without Blockchain; it utilizes the proof-of-work concept, but offers a completely unique solution to the decentralized payment management problem.

2015–. **Rultor** (USA): Continuous Delivery Cloud Platform (USA). Designed and implemented a multi-node distributed build reactor; AWS cloud hosting, via S3/EC2/CloudWatch; Automated PhantomJS/CasperJS integration tests; MongoDB, PostgreSQL, AWS DynamoDB/SQS/EC2/CF, CloudBees.

2013–2014. **VakantieVeilingen**: Auctioning Platform (The Netherlands). Introduced unit testing, continuous delivery, and quality control techniques; Automated pre-flight building mechanism; Refactored Zend Framework based application with over 2mln hits per day; PHP 5.3, PHPUnit, Ant, Jenkins, Vagrant, Chef, PhantomJS/CasperJS.

2012–2014. **NetBout**: User Interface On-Demand. Designed and developed a scalable solution on top of Amazon EBT/S3/CF/EC2; Presented the product on a few VC forums in Silicon Valley; HTML5/CSS3/jQuery, threads, Velocity, JUnit, Mockito, Facebook API, jQuery, MySQL.

2011–2012. **Expinia**: Semantic Search Engine. Designed and developed a search engine on top of Apache Lucene and Mallet; Resolved performance and scalability issues (over 20M entities updated daily); Implemented web layout in HTML5/CSS3; Lucene 3.5, RDF, Mallet, RSS/Atom, RDF, H2 Database, MySQL, OAuth/LinkedIn.

## Recent Employments

**Huawei Technologies Co., Ltd.** (Moscow, Russia), 10/2019–present. Director of System Programming Laboratory: Managing a team of 50+ engineers; Developing code quality and developer assistance tools; Integrating dev-tools with enterprise infrastructure; Popularizing the open source paradigm in Huawei.

**Zerocracy, Inc.** (Palo Alto, CA), 08/2016–10/2019. CEO/Founder of an AI-powered platform for distributed software development teams: Creating the chatbot and integrating it with GitHub, Slack, Telegram; Organizing the pool of freelancers and customers; Designing work Policy for the distributed community of developers; Managing sales, marketing, and PR departments and activities.

**TechnoPark Corp.** (Naples, FL), 05/2000–08/2016. CEO/Co-Founder for Software development general contractor with offices in Florida and Eastern Europe: Coordinating work of multiple multi-national software teams; Overseeing management, design, programming, testing, and delivery; Over 120 successful software projects for customers from North America and Europe; Serving as point of contact for all strategic and technology governance-related issues; Prepared and successfully passed ISO:9001 company certification; Defined and incorporated CMMI Level 4 management standards; Controlled implementation and patenting of an enterprise project management toolkit.

**MIKA Co.** (Ukraine), 04/1993–04/2000. Lead Software Developer and Technical Project Manager for Weighing and scaling equipment manufacturer: Created and maintained project management and technical documentation; Acted as liaison between all departments; Created and reported daily status of projects; Team leader on numerous projects utilizing Java and C++ platforms; Created fully-integrated enterprise-wide information systems; Performed requirements analysis, design, implementation, testing, and maintenance; Hands-on programming in Java and C++.

## **Certifications**

Project Management Professional (PMP), 2008–.

Sun Certified Enterprise Architect (SCEA/OCMEA), 2010.

Zend Certified Engineer (ZCE) in PHP5, 2010.

Zend Framework Certified Engineer (ZFCE), 2010.

OMG Certified UML Professional (OCUP) Fundamental, 2011.

IBM Certified Solution Designer for RUP, 2007.

PRINCE2 Foundation Certified, 2008.

Microsoft Certified Professional (MCP), Managing by Using MSF 3.0, 2009.

CompTIA Project+ Certified, 2007.

IBM Certified Specialist for Req. Mgmt w/Use Cases, 2007.

COSMIC v3.0 Certified, 2008.

## **Education**

Master's Degree in Computer Science, 1993–1998

Dnepropetrovsk National University, Ukraine

Radio-Physics Department, Database Management Systems.

## **Public Not-for-profit Initiatives**

IEEE International Conference on Code Quality (ICCCQ): Co-Organizer.

Annual Quality Award for open source projects: Founder.

Object Thinking series of meetups: Co-Organizer.

Beyond Code: No Code workshop in SPLASH 2021: PC member.

SeedRamp micro-investment fund: Founder.

50+ webinars for programmers.

Shift-M podcast about project management.

IEEE P730 Software Quality Assurance Standard: Volunteer.

ACM: Professional member since April 1996.

PMI: Member since January 2007.

IEEE: Professional member since February 2007.

## **Academic Teaching**

“System Software Development” (32 hours, 175 students)

08/2021–11/2021: Innopolis University

video

“Ensuring Quality in Software Projects” (40 hours, 80 students)

10/2022–03/2023: Innopolis University and HSE University

video

## **Books Written**

Junior Objects, Amazon, 2020: “Object-oriented programming is a mess. However, if you want to find a good job, you have to use it. This book will help you learn it, from scratch. Also, it will point you to all necessary topics in software engineering that you need to learn before you call yourself a senior software developer.”

Elegant Objects, Volume 1, CreateSpace, 2016: “There are 23 practical recommendations for object-oriented programmers. Most of them are completely against everything you’ve read in other books. For example, static methods, NULL references, getters, setters, and mutable classes are called evil.”

Elegant Objects, Volume 2, CreateSpace, 2017: “Compound variable names, validators, private static literals, configurable objects, inheritance, annotations, MVC, dependency injection containers, reflection, ORM and even algorithms are our enemies.”

Code Ahead, Volume 1, CreateSpace, 2018: “It’s a semi-autobiographical

fiction book about a software architect who is involved in programming, debugging, releasing, testing, organizing, team work, and management issues.”

256 Bloghacks, CreateSpace, 2016: “This book summarizes my experience of blogging for two and a half years and growing from zero to 60,000 unique visitors a month at [www.yegor256.com](http://www.yegor256.com); all dirty secrets revealed.”

## **Some Recent Conference Talks**

Expertise vs Experts

DevOpsDays, Boston, MA, USA, September 2018.

Java Annotations Are a Bad Idea

JDK.IO, Copenhagen, Denmark, June 2017.

How Bright Is Your Future?

RigaDevDays, Riga, Latvia, May 2017.

ORM Is an Offensive Anti-Pattern

Øredev 2016, Malmö, Sweden, November 2016.

8 Maturity Levels of Continuous Integration

DevOpsDays, Salt Lake City, UT, USA, June 2016.

Need It Robust? Make It Fragile

DEVit, Thessaloniki, Greece, May 2016.

Meetings and Motivation, Friends or Enemies?

SEDC, Washington, D.C., USA, March 2016.

XDSD: Meetings-Free Software Development Methodology

The Entrepreneurs' Club, Palo Alto, CA, USA, February 2016.

## **Patents, Patent Applications**

12/943,022 “Method and Software of NetBout”

12/840,306 “Puzzle Driven Development (PDD) Method and Software”

12/703,202 “Project Management Robot Method and Software”

12/264,370 “Method for the measurement of quality of process”

12/193,010 “Method for software cost estimating using scope champions”

## **Publications**

*The Impact of Constructors on the Validity of Class Cohesion Metrics*  
IEEE International Conference on Software Architecture, Mar 2020.

*Discovering Bugs, or Ensuring Success?*  
Communications of the ACM, Volume 61, Number 9, Aug 2018.

*We are Done with “Hacking,”*  
Communications of the ACM, Volume 61, Number 7, Jul 2018.

*How to Prevent SVN Conflicts in Distributed Agile PHP Projects,*  
php|Architect, Aug 2010,

*phpRack—Integration Testing Framework,*  
php|Architect, Jun 2010,

*FaZend Object Relational Mapping,*  
php|Architect, Feb 2010,

*Quality of Process Control in Software Projects,*  
IWSM/Mensura, Amsterdam, Nov 2009,

*Quality of Code Can be Planned and Controlled,*  
VALID, Porto, Portugal, Sep 2009,

*Competitive Risk Identification Method for Distributed Teams,*  
SEAFOOD, Zurich, Jul 2009,

*Method for Software Cost Estimating w/Scope Champions,*  
PROFES, Oulu, Finland, Jun 2009.

*The Interactive Databases Approach to the User Interface Modeling,*  
KRDB, Seattle, May 1998.