

# Costin GRIGORE

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I'm a full-stack developer with 20 years experience in various industries and types of software. I had all the roles that exists in a software project.

To succeed you need passion, vision, creativity, experience and a deep understanding of the issues that show up in software development. Embracing change and prediction is less costly than recovering.

I equally love and enjoy project startups, legacy project migrations or project recovery.

My preferred technology stack is java + scala + vue, backed by agile eXtreme Programming practices.

## Main Areas of Expertise

### Roles

• CEO (finance, P&L, marketing, HR, strategy, budgeting, strategy)	41 months experience
• CTO (strategy: partners, technologies, products, teams, tools, standards, environment)	41 m
• Team Lead, Mentoring, Coaching	183 m
• Business Development	61 m
• Project Management, Negotiator	155 m
• Product Owner, UX User Experience, Business Analyst	109 m
• Architect, Designer	221 m
• Data Modeler, Database Design	180 m
• Programmer	341 m
• Build Configuration (maven, CI/CD – Continuous Integration/Delivery/Release)	189 m
• Migration expertise (legacy systems migration)	180 m
• Project Startup (create prototype, architecture, team)	161 m
• Technology Selection	173 m
• Operations (docker, vagrant, virtualization, kubernetes)	61 m
• Quality Assurance (testing strategy, management)	81 m

### Project Types & Industry

• Integration (ESB, camel, REST, database, MessageQueues, High Volume Ingestion)	61m
• Insurance & Risk Managemnt	18m
• Graph Databases (arangoDb)	6m
• Security (SAML, OAuth, OpenId, PKI, IAM, IDM)	20 m
• Scraping, Crawling, Indexing, Data Extractors, Actors, Parallelism, Reactive	22 m
• Distributed Workflow Management, Event Sourcing, Message Exchange, Journaling (integration between countries' systems)	60 m
• Financial (online payment, money transfer systems, banking programming interfaces)	48 m
• Telecom (tracking key metrics of devices and equipments in telecom industry)	11 m
• NMS (network management system, SNMP control)	12 m
• R&D (Data Acquisiton, Signal Processing, Biometric Signal, Artificial Inteligence)	10 m
• ERP (financials, stocks, project management – database intensive)	36 m
• Web (photo, ecommerce, webic)	120 m
• Rich Client Applications (NMS, WebInfoControl, brompton configurator, bets)	44 m
• Algorithms (production optimization planning, CS contests)	139m
• Others: rhyme and language dictionaries, taxi reporting	6 m
• Mobile/Android(zdreanta)	15 m

## Preferred Development Style

• Agile Methodology	168 m
• Test/Behavior Driven Development (TDD, BDD)	168 m
• Pair Programming	128 m
• Refactoring	168 m
• UML description	192 m
• Continuous integration and Delivery	147 m
• Objectual/Declarative/Functional/Aspect Programming Paradigms	242 m
• Rapid Development(RIA)	35 m

## Preferred Technology Stack

• Functional development: scala, reactive streaming, functional collections, vavr, monads	80 m
• Scala, Akka(reactive), Slick	48 m
• Java, Spring Framework, Hibernate & JPA, JUnit, SQL, lombok, mapstruct	163 m
• UX, Vue, vuetify, quasar, material design	30m
• Databases : posgres, h2, mysql, oracle, SQL Server	125 m
• NoSql Database: graph, arangodb, document database	6m
• Bootstrap(responsive), JQuery, CSS3, javascript, HTML	168 m
• Regex, JSoup, XSLT, json	90 m
• Maven, gradle, eclipse, subversion/git	164 m
• Jenkins, jira, gocd, gitlab, github	86 m
• Docker, vagrant, k9s, kubernetes	19 m
• shell(linux,unix,osx)	93 m
• Android	17 m

## Great Expertise in Deprecated Technologies :-{

• XML & WS: XML, XSD, WSDL, SOAP	119 m
• UI : GWT, Spring MVC, playframework	124 m
• SBT, Ant, shell(linux,unix,osx)	93 m
• C, C++	60 m
• perl, PHP	20 m
• Oracle Designer	30 m

## Self-Portrait

### Online presence

- gitawards - <http://git-awards.com/users/search?login=raisercostin>
- github - <https://github.com/raisercostin>
- stackoverflow - <http://stackoverflow.com/users/99248/raisercostin>
- goodreads - <http://goodreads.com/raisercostin>
- linkedin - <https://ro.linkedin.com/in/raisercostin>
- bintray - <https://bintray.com/raisercostin/maven>

### Books that I love

- Ron Jeffries – The Nature of Software Development
- Andrew Hunt, David Thomas - Pragmatic Programmer
- Frederick Brooks - The Mythical Man-Month Essays on Software Engineering
- Joel Spolsky - Smart and Gets Things Done
- Kent Beck - Test Driven Development By Example
- Robert Martin – Clean Code
- Steve Krug – Don't Make Me Think
- Tom DeMarco – The Deadline
- Martin Fowler - Refactoring Improving the Design of Existing Code
- Martin Fowler – Domain Specific Languages
- Steve McConnell – Code Complete 2

### Qualities that are handy at work

- self-appraisal capacity
- self-taught, curious, flexible, learner
- synthesis and analytical capacity
- love to teach, explain and share knowledge

## Interests

**Professional:** analysis, design, TDD, BDD, XP methodology, refactoring, pair programming, programming language paradigms, noSql databases, reactive programming, responsive design

**Personal:** literature, psychology, martial arts, theater, acting, SF, biology

## Availability

I have a job. I am looking for special opportunities. I am available for a new contract in 30 days.

## Mobility

I am ready to relocate in order to get a job. I'm comfortable with quite a few business trips.

## Experience

### Lead Developer & CTO Revomatico – 2017.jan/present

**Betting System** – high volume feed ingestion and data consolidation

- 8 people, 110 man-months, java, functional, vavr, mapstruct, lombok, vuetify, nuxt
- Development, technology selection, integration, design, architecture, internship
- Achievements
  - o flexible change of feeds and integration
  - o high volume, reactive streaming
  - o rapid development and fast UX changes
  - o continuous delivery, multiple environments, kubernetes, disaster recovery

**REVO IAM** – IDM, arangodb, graph database, object correlation

- 2 people, 20 man-months, camel, java, rest, vavr, ldap, h2, csv, rest, gitlab api
- Integration, development, technology selection
- Achievements
  - o fast changes on user feedback
  - o security threats on data management analysis

**IAM Telecom Bulgaria** – IDM, midpoint, database&REST integration, approval flows

- 2 people, 20 man-months, midpoint, camel, ConnId, ICF Identity Connector, java
- Integration, development, technology selection
- Achievements
  - o generic ConnId REST connector
  - o extend existing product

**docLess** – automatic document management, multi-format views

- 3 people, 30 man-months, java, functional, vavr, vuetify, nuxt, autocad dxf, pdf
- Development, technology selection, design, architecture, internship
- Achievements
  - o flexible change of feeds and integration
  - o high volume, reactive streaming
  - o rapid development and fast UX changes

### Software Architect – 2015.Sep/13 months - European Commission DIGIT

**UUM&DS** – ECAS, IAM, IDM, security, authentication, SAML – TAXUDCAS

- 8 people, 100 man-months, java, maven, docker, git, agile, weblogic, oracle db
- Integration, development, operation, technology selection
- Achievements
  - o Dockerize of entire solution including ECAS, ECAS client, IAM
  - o Federation of Member States IAM solutions using SAML, eIDAS technologies, ECAS

### CTO Brainlight - 2014.jan/2 years

**www.darzar.com** – product extractor, crawler, scraper, responsive, facet search

- Environment: Team size: 6 man-months, scala, sbt, eclipse, git, agile, wiki
- Roles: product owner, architecture, design, development, integrator, technology selection
- Achievements
  - o In beta, online with 33.000 products from over 100 romanian e-shops.

**Goose** – Information retrieval

- crawler, scraper, regexp extractor, jsoup, goose with contributions on github - <https://github.com/raisercostin/goose>
- Roles: development, integrator, refactored legacy code

- Achievements
  - o Integrated in one week more than 40 git branches to consolidate all contributions made in last 4 years by various contributors

**Content Organizer Assistant** – automatic heuristic metadata extractor of Exif (images), ID3 tag(mp3)

- <http://blog.raisercostin.org/post/own-your-media>
- Environment: scala, sbt, eclipse, git, agile, wiki
- Roles: product owner, architecture, design, development, integrator, technology selection

**Article Extractor** – article extractor from ppt, pps, pdf(ebooks), web sites through crawling and scrapping

- Environment: scala, sbt, eclipse, git, agile, wiki, regex, xpath, xml, jtidy, jsoup, amazon ws, playframework, bootstrap, securesocial, openId/facebook/google authentication, responsive, reactive, akka, actor system
- Roles: product owner, architecture, design, development, integrator, technology selection
- Achievements
  - o Minimum viable product delivered in 2 weeks ([www.YoupiQ.com](http://www.YoupiQ.com))
  - o In production for months with no maintenance effort

**Anyjob** – web project – 2007-2010

- 6man-month, 2 men, eclipse, spring, ajax, html, css, GWT, google appengine, java6, subversion, maven
- project management, specification, analysis, design, build

**Software Architect / Team Leader** – 2011.Jan/3 years - European Commission DGEMPL

**EESSI** – distributed flow management/choreography between European institutions

- Environment: Team size: 5x20 man-years, managed: 3-7 men, eclipse, spring, ajax, html, css, java6/java7, subversion/svn/git, maven, jboss, weblogic, LDAP, playframework, Jenkins and Bamboo, confluence, jira
- Architecture, specification, analysis, design, build, development, build configuration, agile framework: wiki/confluence, svn/git, continuous integration server/bamboo/Jenkins, lead developer, technical lead
- Achievements
  - o Handover outsourced project
  - o Specification and implementation of programmatic API exposed for National Applications
  - o Refactoring legacy code to split GUI in presentation and backend
  - o Installer for centrally and member states software (reduce deployment complains)
  - o Categorize bugs in ones that require technical hardening and ones that need business reflection period
  - o Deliver internal prototype
  - o Deliver business layer analysis: Modeling, BPMN, Distributed Flow Management
  - o Demo prototype to Unit Managers
  - o Demo transport and messaging prototype to Technical Committee(June 2013)
  - o Demo business layer prototype in front of Technical Committee(September 2013)
  - o Playground (to foster protocol convergence) on internet
  - o Solving political issues by creating tailored technology: any size transfer, multi-hop networks, online/offline clerk client, protocol flexibility depending on sector and flow, deploy anywhere

**Team Leader / Project Manager** – 2006.May/4.5 years – Gemini Solutions – [www.geminisols.com](http://www.geminisols.com)

**Money Transfer** – adapt different banking systems

- >70 man-month, 6 men, Windows XP/Linux, eclipse europe, spring framework, hibernate, java5, java6, perforce, maven
- team leading, coaching, project management, analysis, design, build configuration, migration

**Device IQ** – application for tracking key metrics of devices for telecom/mobile industry

- 27 man-month, 9 men, Windows XP/Linux, eclipse 3.2, spring framework, hibernate, java5, perforce, maven
- team leading, project management, analysis, design, configuration, coaching

**Senior Software Engineer** – 2006.Feb/4 months – Gemini Solutions – [www.geminisols.com](http://www.geminisols.com)

**Field IQ** – application for tracking key metrics of signal and towers for mobile industry

- 50 man-month, 7 men, Windows XP/Linux, eclipse 3.2, spring framework, hibernate, java5, perforce, maven
- design, development

**Senior Software Engineer** – 2005.Feb/12 months – Alvarion – [www.alvarion.com](http://www.alvarion.com)

**NMS** - a network management system for huge wireless devices networks – 11 months

- 60 man-month, 5 men, Windows XP, eclipse 3.1, hibernate, jboss, java5, SNMP, annotations, Perforce, Team Track, XML, XSL translators
- analysis, redesign, development, configuration (builds), code migration, coaching

## Software Engineer – 2003.Sep/17 months – Redpoint\_

### Photos - website for social networking – 2 months

- 2 man-month, 2-3 men, Windows XP, eclipse 3.1, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe
- analysis, design, database design, development

### Shop - website generically shop ( <http://freezonetrader.com> ) – 6 months

- 12 man-month, 2 men, Windows XP, eclipse 3.1, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, internet payment, junit, SourceSafe
- analysis, design, database design, development, testing

### Machine Planner – processes planner for a factory production – 3 months

- 7 man-month, 2-3 men, Windows XP, eclipse 3.1, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, applets, junit, SourceSafe
- analysis, design, database design, development, algorithms research

### WebInfoControl – applet interface for a monitoring application (sensors, relays, images, proprietary network protocol specifications and development) – 3 months

- 3 man-month, 1 man, Windows XP, eclipse 3.1, tomcat, MS SQL Server 2000, java, applets, sockets, junit, SourceSafe
- analysis, design, development

### Taxi – payment management application for a taxi company – 3 months

- 2 man-month, 2-3 men, Windows XP, Visual Studio .net, Access, c++, odbc, payment, cppUnit
- maintenance, SourceSafe

## Software Engineer – 2003.May/4 months – Softnet-Ferma Romania

### Management Module – Account management module for mobile telephony, objectual approach

- 4 man-month, 1 man, Windows NT, solaris/linux, c/c++, cppUnit, eclipse
- development, testing

## Software Engineer – 2000.May/3 years – Softwin - [www.softwin.ro](http://www.softwin.ro)

### Pixel –signature acquire application, recognition and authentication of human signature - 10m

- 14 man-month, 2 men, Windows NT, Visual Studio .net, c++, cppUnit, java, junit, SourceSafe
- scientific research (documentation, research, terminology) , analysis, design, development

### Stock WebERP – Stock Management Module, as a part of an ERP system – 6m

- 5 man-month, 2 men, Windows NT, Internet Enabled, Component Oriented, Web Based (JSP 1.2, Servlets, Enterprise Java Beans 1.1, Application Server - Jonas, Servlets Container - Tomcat 3.2.1, Web Server - Apache), Visual SourceSafe, Rational Rose
- analysis, design, database design

### Rhyme Dictionary – rhyme dictionary for Litera Printing House – 1m

- 1 month/man, 1 man, Windows NT, Visual Studio .net, c++
- words processing, development, testing

### English/Italian/Spanish - Romanian Dictionary – dictionaries series for Niculescu Printing House – 2m

- 2 man-month, 1 man, Windows NT, Visual Studio .net, c++
- words processing, development, testing

### Conta WebERP – Financial Management Web Module, as a part of an ERP system – 12m

- 120 man-month, 15 men, Windows NT, Internet Enabled, Component Oriented, Web Based (JSP 1.2, Servlets, Enterprise Java Beans 1.1, Application Server - Jonas, Servlets Container - Tomcat 3.2.1, Web Server - Apache), Visual SourceSafe, Rational Rose
- analysis, design, database design, development, testing

### System 3D Project – Project Management Module, as a part of an ERP system – 5m

- 28 man-month, 7 men, Windows NT, Designer 2000, Developer 2000 (Forms 6.0, Reports 6.0), Visual SourceSafe, Rational Rose
- database design, development, testing

## Personal Projects

[zdreanta](https://play.google.com/store/search?q=zdreanta) – multimedia android mobile application (<https://play.google.com/store/search?q=zdreanta>)

[brompton configurator](#) – GWT application

[mydata](#) – A CV generator based on xml and xsl.

[tag4j](#) – A java id3 tag API for reading information from mp3.

[mp3Renamer](#) – A tool which search mp3 information and based on pathname and id3 tag renames the mp3 accordingly.

[raiserlinks](#) – A java application for importing messages from yahoo messenger and trillion.

[refacta](#) – Change a C++ comment style code with a C comment style.

[resub](#) – Recomputes times for movie's subtitles.

[videochat](#) – A java videochat application.

[selfim](#) – An information manager, accessible online or offline for information like emails, bookmarks, accounts, projects, tasks lists and others.

[Clipser](#) – A runtime for CLIPS language.

## Other Development Skills

- Design: Rational Rose, Oracle Designer
- Database: PLSQL, SQL\*PLUS, Oracle Forms, Oracle Designer, Oracle Reports
- Languages: pascal, java script, js, jscript
- Communication technologies: socket, IPCS, RMI, SNMP
- Parsing. Interpreters. Compilers: bison, flex, javacc, jtree
- Artificial Intelligence: prolog, lisp, scheme, neural networks
- Low level languages: ASM x86, linux drivers
- Source Versioning: perforce, subversion, cvs, vss
- Servers: MySQL, SQLServer, Oracle, Tomcat, Jboss
- Electronical Tools: pspice, verilog, HPVVEE, LabView
- Others: Open GL, Autocad

## Other skills

### Languages

- English - proficient
- Romanian - proficient

### Driving license

- yes

### Classes

- Psychology
- Pedagogy
- Methodology

## Education:

### Computer Science Master (2002 – 2003)

University Politehnica of Bucharest, Computer Sciences

### Software Engineer in Computer Science (1997 – 2002)

University Politehnica of Bucharest, Computer Science, Systems and Base Programs Major (C3)

### Baccalaureate Diploma (1992 – 1997)

High school "Alexandru Odobescu" Pitesti, Computer Sciences

## Diplomas & Certifications

2014 Coursera – Principles of Reactive Programming – with distinction

2013 Coursera – Functional Programming Principles in Scala – with distinction

2004 (Brainbench Transcript Code ([www.brainbench.com](http://www.brainbench.com)):1045642

Brainbench Master Java 1 (4.52)

Brainbench Typing Speed & Accuracy (3.46)

Brainbench Master Java 2 GUI (4.08)

Brainbench Master Java 2 Non GUI (4.58)

Brainbench Master HTML 4.0 (4.12)

- 2002

Brainbench Java 1 (4.21)

Brainbench HTML 3.2 (3.66)

Brainbench Unified Modeling Language (UML) (3.46)

Brainbench Math Fundamentals (3.68)

CISCO CCNA – Semester 1 (44/45)

- 2001

Brainbench Master Java 1, Master Computer Fundamentals, Oracle PL/SQL, Javascript

- 2000

Brainbench C, C++, Analyst Programmer

Curs Oracle Designer - First Class,

Curs Oracle Designer – Systems Modeling

Curs Oracle Designer – Forms Generation

Curs Oracle Designer – Data Modeling and Relational Database Design

Scientific Session Communication Politology: mention

- 1999

Scientific Session Psychology: mention 1997

- 1997

Computer Science National Contest: mention

Computer Science Local Contest: 1st place

- 1996

Computer Science National Contest: mention

Computer Science Local Contest: 1st place

- 1995

Computer Science National Contest: 2nd place

Computer Science Local Contest: 1st place