

Costin GRIGORE

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I offer consultancy and bring real value on project startups, project migrations or project recovery. In order to be successful you need vision, creativity, experience and a clear understanding of all the issues that could appear in software development since prediction is less costly than recovering.

Main Areas of Expertise

Roles

- Team Lead, Coaching – 142 months experience
- Business Development – 20 m
- Project Management, Negotiator – 114 m
- Business Analyst – 68 m
- Architect, Designer – 180 m
- Database Design – 139 m
- Programmer – 300 m
- Build Configuration (maven, ant, Cruise Control, SBT, Jenkins) – 148 m
- Migration expertise (legacy systems migration) – 139 m
- Project Startup (create prototype, architecture, team) – 120 m
- Technology Selection – 132 m
- Operations (docker, vagrant, virtualization) – 20 m
- Quality Assurance (testing strategy, management) – 40 m

Project Types and/or Industry

- Security (SAML, OAuth, PKI) – 20 m
- Scraping, Crawling, Indexing, Data Extractors, Actors, Parallelism, Reactive – 22 m
- Distributed Flow Management, Event Sourcing, Message Exchange (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 Acquisition, Signal Processing, Biometric Signal, Artificial Intelligence) – 10 m
- ERP (financials, stocks, project management – database intensive) – 36 m
- Web (photo, ecommerce, webic) – 80 m
- Rich Client Applications (NMS, WebInfoControl, brompton configurator) – 24 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

- Java, Spring Framework, Hibernate-JPA, JUnit, SQL – 163 m
- Scala, Play Framework, Akka(reactive), Slick – 48 m
- Bootstrap(responsive), JQuery, CSS3, javascript, HTML – 168 m
- Regex, JSoup, XSLT, json – 90 m
- Maven/SBT, eclipse, subversion/git – 164 m
- Jenkins, jira – 86 m
- Docker, vagrant – 19 m
- Android – 17 m

Great Expertise in

- XML & WS: XML, XSD, WSDL, SOAP – 119 m
- UI : GWT, Spring MVC, playframework – 124 m
- Databases : postgres, h2, mysql, oracle, SQL Server – 125 m
- Ant, shell(linux,unix,osx) – 93 m
- C, C++ – 60 m
- perl, PHP – 20 m
- Oracle Designer – 30 m

Experience

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

UUM&DS – ECAS, 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, stork, ECAS

CTO & CEO Brainlight - 2014.jan/2 years

www.darzar.com – product extractor, crawler, scrapper, 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, scrapper, 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)
 - 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

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

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

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

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 – 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, HPVee, 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):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

Brainbench Master Computer Fundamentals

Brainbench Oracle PL/SQL

Brainbench Javascript

• 2000

Brainbench C

Brainbench C++

Brainbench 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

Self-Portrait

Online presence

- 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

- 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.