

# Costin Grigore

## Hands-On Software Architect

costin.grigore@gmail.com +40 740 720 002

## Resume

### Profile

I'm a software engineer with 24 years of experience in various **industries** and software **types**. I had all the **roles** that exist in a software project or startup from coder, to product owner, to CTO and CEO.

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.



### Online

[linkedin.com/in/raisercostin](https://linkedin.com/in/raisercostin)  
[stardev.io/developers/raisercostin](https://stardev.io/developers/raisercostin)  
[github.com/raisercostin](https://github.com/raisercostin)  
[stackoverflow.com/users/99248](https://stackoverflow.com/users/99248)  
[goodreads.com/raisercostin](https://goodreads.com/raisercostin)  
[raisercostin.org](https://raisercostin.org)

### Hobbies

Reading: SF, philosophy, non-fiction  
Taxonomies  
Polymath

### Skills & Roles

Project & Team Leadership

Software (Re)Architecture, (Re)Design, Migration

eXtreme Programming: Agile, TDD, BDD, XP

Product Owner, MVP

Full-Stack Development, Engineering and Program Manager, CTO

Continuous Integration and Delivery (CI/CD)

### Work Experience (summary)

#### Principal Software Architect / Engineering Practices Lead - Regnology 2025-Present

Engineering enablement and SDLC modernization across unified platform and acquired systems. Strengthened testability, observability, DevEx and XP practices. Led JVM performance optimization, CI/CD standards review and defined DORA-aligned metrics connecting architecture and delivery.

Technologies: java, spring boot, jee, gwt, jboss/wildfly, microservices, oracle db, clickhouse, trino, apache iceberg, gcp, kubernetes, helm, opentelemetry (otel), grafana, traces, jenkins.

#### Lead Software Engineer - SpotOnFinance [spotonfinance.com](https://spotonfinance.com)

2023-2024

Built the platform from concept to live product in six months, enabling AI-driven parsing and categorization of bank statements. Led software architecture, delivery pipeline, and implementation for scalability and rapid iteration.

Technologies: java 21, spring boot, postgresql, sql, vue, typescript, tailwindcss, docker, swarm, cloudflare, hugo, deno, cms integration, ollama, openai, jbang.

#### Software Architect - Sports Betting - Revobet

2017-2023

Achieved GLI-33 certification for a newly built, low-latency, multitenant SaaS platform covering risk management, payments, bonuses, help desk, translations, and multiple integrations. Led a 10-member engineering team.

Technologies: java 17, kafka, prometheus, mq, vue, responsive, mobile-first, kubernetes.

#### Software Architect - ECAS-UUMDS - European Commission - DIGIT

2015-2016

Migrated legacy ECAS and UUMDS solutions to containerized environments using Docker Compose. Technologies: java, docker compose.

#### Software Architect - EESSI - European Commission - DG EMPL

2011-2014

Designed distributed flow management prototype that won competition against Microsoft and IBM solutions for multi-hop, encrypted data exchange.

#### Technical Lead - Tech Finance - XOOM / Gemini Solutions

2006-2010

Built and delivered a banking integration framework for a Silicon Valley fintech startup, leading a team of 12 senior developers.

### Education

#### Master and Bachelor of Science in Computer Science (C3 - Systems)

Polytechnic University of Bucharest - 1997-2003

Graduated with a perfect score and national awards in Informatics

# Main Areas of Expertise

## Roles

Team Lead, Lead Developer, Mentoring, Coaching,	
Internship	20y 9
Business Development	9y 7
Executive Operational & Strategic (business, finance, hiring, operation, marketing planning)	4y 6
Technology Selection, Program Manager	20y 0
Project Management, Negotiator	17y 3
Product Owner, UX User Experience, Business Analyst	13y 7
Architect, System Design, Application Design	24y 0
Data Modeler, Database Design	19y 6
Software Engineer, Programmer (+unit testing & TDD)	33y 0
Build Configuration (maven, CI/CD - Continuous Integration/Delivery/Release)	21y 2
Migration expertise (legacy systems migration)	20y 6
Project Startup (create prototype, architecture, team)	18y 0
DevOps (docker, vagrant, virtualization, Kubernetes, otel, observability, wsl2)	10y 7
Quality Assurance (testing strategy, management)	12y 2

Others: rhyme and language dictionaries, taxi reporting	0y 5
Mobile/Android (zdreanta)	1y 3

## Preferred Development Style

Agile Methodology	19y 6
Test/Behavior Driven Development (TDD, BDD), test containers	19y 6
Pair Programming	15y 1
Refactoring	19y 6
UML description	20y 6
Continuous integration and Delivery	17y 9
Objectual/Declarative/Functional/Aspect Programming	
Paradigms	24y 8
Rapid Development (RIA), Deno/TypeScript, JBang!	8y 3

## Preferred Technology Stack

Functional development: scala, reactive streaming, functional collections, vavr, monads	11y 7
Scala, Akka(reactive), Slick	5y 7
Java, Spring Framework, Hibernate & JPA, JUnit, SQL, lombok, mapstruct, jOOQ, fabric8	18y 6
UX, Vue, vuety, quasar, material design, typescript	6y 5
Databases: postgres, h2, mysql, oracle, SQL Server, trino, calcite, clickhouse	15y 4
NoSQL Database: graph, arangodb, document database	5y 5
Tailwind, Bootstrap(responsive), JQuery, CSS3, javascript, HTML	17y 1
Regex, JSoup, XSLT, json, yml, yaml, tsv, csv, xlsx	11y 5
Maven, gradle, eclipse, subversion/git	18y 7
Jenkins, jira, gocd, gitlab, github, gocd	12y 2
Docker, swarm, vagrant, k9s, kubernetes, helm, gcp	6y 6
Shell (bash, ts, deno, linux, unix, osx)	13y 2
Android	2y 7

## Great Expertise in Obsolete Technologies :-)

XML & WS: XML, XSD, WSDL, SOAP	11y 7
UI: GWT, Spring MVC, playframework	11y 3
SBT, Ant, shell(linux, unix, osx)	7y 8
C, C++	5y 0
perl, PHP	1y 7
Oracle Designer	2y 5

# Self-Portrait

## Books that I Love

Ron Jeffries - The Nature of Software Development  
Andrew Hunt, David Thomas - Pragmatic Programmer  
Steve McConnell - Code Complete 2  
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

Frederick Brooks - The Mythical Person-Month Essays on Software Engineering

## 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

## Detailed Experience

### Principal Software Architect / Engineering Practices Lead - Regnology

2025-03 - present

#### Engineering Practices Enablement

- Modernization program for software development lifecycle (SDLC) and engineering practices across multiple product lines.  
Performed SDLC audit and defined key initiatives to improve testability, observability, CI/CD efficiency and TDD adoption.  
Introduced metrics and tooling alignment using the DORA framework.  
Strengthened testability through TDD practices for caching, document upload and reporting APIs.  
Implemented regression suites and performance drift monitoring for long term stability.  
Led JVM performance profiling for reporting, startup, caching and Abacus modules.  
Prepared OpenTelemetry rollout for production including distributed tracing in GCP.  
Created Oracle to Trino/Iceberg modernization proof of concept using JDBC interception.  
Improved reporting page performance by approximately 50 percent.  
Enhanced REST integration and UI testability for reporting flows.  
Advocated adding REST based report download endpoints to close TDD gaps.  
Contributed to engineering governance by improving decision accountability, transparency and alignment.  
architecture leadership, engineering coaching, process review and Java, Spring Boot, JEE, GWT, JBoss/WildFly, Microservices, Oracle, ClickHouse, Trino, Apache Iceberg, GCP, Kubernetes, Jenkins, Helm, OpenTelemetry improvement

### Lead Software Engineer - SpotOnFinance

2023.jun / 1.5 years

#### SpotOnFinance

- Finance for owners.  
product owner, architecture, design, development

3 devs \* 1.5 year

java, vue, springboot, postgres, docker, cloudflare, docker swarm, tailwindcss, typescript, deno, hugo, cms, ollama, openai, jbang

### Software Architect - Revobet

2018.dec/4.5years

#### Revobet

- high volume feed ingestion and data consolidation  
development, technology selection, integration, design, architecture, internship

10 people \* 4.5 years

Java 17, Kafka, Prometheus, MQ, Vue, responsive, mobile-first, Kubernetes, multiple environments, disaster recovery, rapid dev, reactive streaming, prevent vendor-lock-in, functional, vavr, mapstruct, lombok, vuety, nuxt

## Principal Software Engineer - Revomatico

2017.jan/2 years

IAM Telecom A1 Bulgaria - IDM, midpoint, database & REST integration, approval flows

3 people \* 10 months

 integration, development, technology selection

 midpoint, camel, ConnId, ICF Identity Connector, java

## Software Architect - European Commission - DIGIT

2015.Sep/13 months

ECAS-UUMDS - IAM, IDM, security, authentication, SAML - TAXUDCAS

8 people \* 5 years

 Integration, development, operation, technology selection

 java, maven, docker, git, agile, weblogic, oracle db

## Senior Software Engineer - Brainlight

2014.jan/2 years

Darzar  - product extractor, crawler, scrapper, responsive, facet search

2 people \* 1 year

 product owner, architecture, design, development, integrator,  technology selection

## Software Architect/Team Leader - European Commission - DGEMPL

2011.Jan/3 years

EESSI - distributed flow management/choreography

20 people \* 5 years, managed 7 devs

between European institutions

Delivered working prototype and won competition with MS and IBM prototypes for a Distributed Flow Management solution: multi-hop, no size limitation, efficient multi-party end2end encryption: java.

Outsourced project handover. Specification and implementation of programmatic API exposed for National Applications.

Refactoring legacy code to split GUI in presentation and backend

Installer for centrally and member states software (reduce deployment complains)

Categorize bugs in ones that require technical hardening and ones that need business reflection period

Deliver business layer analysis: Modeling, BPMN, Distributed Flow Management

Demo prototype to Unit Managers

Demo transport and messaging prototype to Technical Committee (June 2013)

Demo business layer prototype in front of Technical Committee (September 2013)

Playground (to foster protocol convergence) on internet

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

 Architecture, specification, analysis, design, build, development, build configuration, agile framework:

 eclipse, spring, ajax, html, css, java6/java7, subversion/svn/git, maven, jboss, weblogic, LDAP, playframework, Jenkins and Bamboo, confluence, jira

wiki/confluence, svn/git, continuous integration

server/bamboo/Jenkins, lead developer, technical lead

## Team Leader/Project Manager - Xoom/Gemini Solutions

2006.May/4.5 years

Money Transfer - adapt different banking systems - xoom.com (bought by paypal)

lead 12 senior engineers \* 3 years

 team leading, coaching, project management, analysis, design, build configuration, migration

 eclipse europe, spring framework, hibernate, java5, java6, perfcore, maven

## Senior Software Engineer - Alvarion

2005.Feb/1 year

NMS - a network management system for huge wireless devices networks

6 people \* 12 months

 analysis, redesign, development, configuration (builds), code migration, coaching  eclipse, hibernate, jboss, java5, SNMP, annotations, Perforce, Team Track, XML, XSL translators

## Software Engineer - Redpoint

2003.Sep/17 months

Photos - website for social networking

2-3 people \* 2 months

 analysis, design, database design, development, algorithms research  eclipse, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe, applets, sockets

Shop - website generically shop

3 people \* 6 months

 analysis, design, database design, development, algorithms research  eclipse, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe, applets, sockets

Machine Planner - processes planner for a factory production

2 people \* 3 months

 analysis, design, database design, development, algorithms research  eclipse, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe, applets, sockets

WebInfoControl - applet interface for a monitoring application (sensors, relays, images, proprietary

4 people \* 3 months

network protocol specifications and development)

 analysis, design, database design, development, algorithms research  eclipse, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe, applets, sockets

Taxi - payment management application for a taxi company

2 people \* 3 months

 analysis, design, database design, development, algorithms research  eclipse, tomcat, MS SQL Server 2000, java, servlets, jsp, taglib, junit, SourceSafe, applets, sockets

## Junior Software Engineer - Softwin

2000.May/3 years

Pixel - signature acquire application, recognition and authentication of human signature

2 devs \* 10 months

 scientific research (documentation, research, terminology), analysis, design, development  Windows NT, Visual Studio .net, c++, cppUnit, java, jUnit, SourceSafe

Inventory Web ERP - Inventory Management Module, as a part of an ERP system

2 devs \* 6 months

 analysis, design, database design

 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

Conta Web ERP - Financial Management Web Module, as a part of an ERP system

15 people \* 12 months

 analysis, design, database design, development, testing

 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

System 3D Project - Project Management Module, as a part of an ERP system

7 people \* 5 months

 database design, development, testing

 Designer 2000, Developer 2000 (Forms 6.0, Reports .0), Visual SourceSafe, Rational Rose