

Costin Grigore

Hands-On Software Architect

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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://www.linkedin.com/in/raisercostin)
stardev.io/developers/raisercostin
github.com/raisercostin
stackoverflow.com/users/99248
goodreads.com/raisercostin
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 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

Project Types & Industry

Regulatory Reporting	1y 0
Sports Betting (low latency systems, Kafka, self-learning)	5y 1
Integration (ESB, camel, REST, database, Message Queues, High Vol Ingestion, Kafka)	10y 1
Insurance & Risk Management	1y 5
Graph Databases (Arango DB)	4y 2
Security (SAML, OAuth, OpenID, PKI, IAM, IDM, Keycloak)	5y 7
Scraping, Crawling, Indexing, Data Extractors, Actors, Parallelism, Reactive	5y 8
Distributed Workflow Management, Event Sourcing, Message Exchange, Journaling (integration between countries' systems)	8y 5
Financial (online payment, money transfer systems, banking API, crypto)	9y 0
Telecom (tracking key metrics of devices and equipment in telecom industry)	0y 9
NMS (network management system, SNMP control)	1y 0
R&D (Data Acquisition, Signal Processing, Biometric Signal, Artificial Intelligence)	0y 8
ERP (financials, stocks, project management - database intensive)	5y 0
Web (photo, ecommerce, webic, responsive)	15y 0
Rich Client Applications (NMS, WebInfoControl, brompton configurator, bets)	7y 7
Algorithms (production optimization planning, CS contests)	16y 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, vuetify, quasar, material design, typescript	6y 5
Databases: posgres, 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

Engineering Practices Enablement - Modernization program for software development lifecycle (SDLC) and engineering practices across multiple product lines. **2025-03 - present**

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 improvement

Java, Spring Boot, JEE, GWT, JBoss/WildFly, Microservices, Oracle, ClickHouse, Trino, Apache Iceberg, GCP, Kubernetes, Jenkins, Helm, OpenTelemetry

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, vuetify, 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

 scala, sbt, eclipse, git, agile, wiki

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: wiki/confluence, svn/git, continuous integration server/bamboo/Jenkins, lead developer, technical lead

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

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, perforce, 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 network protocol specifications and development)

4 people * 3 months
-  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