

CRISTINA NEGREAN

Software Engineer with a pragmatic mentality, passionate about clean, secure code, provisioning and automation. I solve problems with code and help people overcome obstacles by sharing knowledge.

@ hello@cristina.tech <https://cristina.tech> Amersfoort, The Netherlands

EXPERIENCE

Cloud Native Software Engineer

Trifork - Operations & Enterprise Application Development

📅 10/2018 - Ongoing 📍 Amsterdam

Trifork Amsterdam is a project-based technology partner part of the Danish founded Trifork Group.

- Build both software and infrastructure-as-code, deployment pipelines the software relies on, for various clients in different industries: cryptocurrency trading, gaming & online gambling, e-learning, oil & gas
- Acquired a unique, versatile skill set by engaging into various roles: cloud engineer, site reliability engineer, DevOps engineer, Java developer, systems engineer and cloud native consultant
- Help with request for quotation while working in the Trifork Operations business unit where most assignments revolve around replacing outdated IT landscapes with distributed systems, microservices architecture and cloud operations
- Hands-on Java development on various core integrations of a cloud native high-traffic API Gateway

Software Engineer (Backend)

Xebialabs - Enterprise DevOps

📅 10/2017 - 09/2018 📍 Hilversum

Xebialabs is a provider of Continuous Delivery software for deployment automation (XL Deploy) and release orchestration (XL Release).

- Improved responsiveness of the XL Deploy analytics dashboard by a factor of 20 in production scale environments by writing a new SQL databases query builder in Scala on top of Spring Data Access
- Contributed Scala, Python and Groovy DSL code and documentation to a lightweight command line interface and infrastructure-as-code solutions to simplify XL Deploy provisioning
- Fixed XL Deploy Python SDK to be Python 3 interpreter compatible
- Created a performance monitoring dashboard to observe and alert on XL Deploy production application and environment metrics
- Improved XL Deploy build pipeline based on Jenkins CI with respect to backend quality assurance automated tests
- Upgraded code base to newer versions of open source libraries to mitigate security vulnerabilities

Senior Java Developer & Scrum Master

Careweb - Healthcare solutions for Medical Practices

📅 06/2016 - 07/2017 📍 Utrecht

Adhering to the motto: "more time for care", Careweb's web-based, multi-tenant Electronic Health Record system (Dutch: Elektronisch Patiëntendossier) is built to compliment the healthcare process.

- Release company's first public facing REST API used to synch healthcare systems data and support 2k new users of their biggest client
- Pioneered their move to HL7 FHIR, a new interoperability standard intended to facilitate the exchange of healthcare information between healthcare providers
- Introduced agile development concepts that made it possible to release the minimum viable product and increments every two weeks to supply proper integration testing with Code24
- Contributed to an authentication mechanism based on HMAC (keyed-hash message authentication code) and PKCS #12 to ensure the highest degree of protection while consuming sensitive data
- Maintained a Single-Sign-On module by providing tweaks & fixes

TECH STACK

Cloud Platforms & Services

[GCP](#) [AWS](#) [VPC Networking](#)

[Google Compute Engine](#) [AWS EC2](#)

[AWS Lambda](#) [IAM](#) [GCR](#) [ECR](#)

[GKE](#) [EKS](#) [Kubernetes](#)

[Google Cloud Storage](#) [AWS S3](#)

[Google Cloud SQL](#) [AWS RDS](#)

[AWS DynamoDB](#) [AWS Route 53](#)

[AWS Cognito](#) [AWS SQS](#) [Cloud VPN](#)

[Cloud Logging](#) [NGINX](#) [Traefik](#)

Statically & Dynamically Typed Programming Languages

[Java 11](#) [Scala](#) [Python](#) [Groovy](#)

Provisioning & Configuration Automation

[Hashicorp Terraform](#) [Hashicorp Packer](#)

[YAML](#) [Hashicorp Vault](#) [Docker](#)

[Bash Scripting](#) [Helm](#) [Microconfig](#)

[Kustomize](#) [SaltStack](#) [LetsEncrypt](#)

Performance Monitoring & Distributed Systems Observability

[JMX](#) [VisualVM](#) [InfluxDB](#) [Grafana](#)

[CollectD](#) [Prometheus](#) [Datadog](#)

Security, Authentication & Authorisation

[Java Cryptography Architecture](#) [HMAC](#)

[PKCS12](#) [OAuth 2.0](#) [Spring Security](#)

EXPERIENCE

Senior Lead Java Web Developer

[GreetzNL - Ecommerce](#) 📅 10/2015 - 05/2016 📍 Amsterdam

With over 2 million customers, Greetz has grown from Dutch market leader in online greeting cards into the online e-commerce platform for personal surprises.

- Mentored and coached a team of 4 developers, all while doing hands-on coding, technical designs and being main point of contact for operational issues on the Greetz Desktop and Administration portals
- Solve problems with code: Java, Spring Boot, SQL (MariaDB)
- Established a new way of working with code review, definition of done and acceptance criteria's on user stories to boost quality, knowledge sharing and avoid rework and release regressions
- Improved desktop and administration portal deployment release cycles by splitting and migrating monolithic code base to GitHub and Travis CI
- Contributed to the delivery of their first microservice for B2B invoicing

Senior Software Engineer

[Cycleon - Returns Management](#) 📅 07/2008 - 10/2015 📍 Utrecht

Cycleon manages the reverse logistics flows of major international brands and is an awarded Supply Chain and Service Integrator.

- Pioneered the building blocks of an intelligent warehousing supply chain IT platform
- Solved problems with code, mainly Java and Java Enterprise Edition (web services, web applications, Liferay portals), Spring and PostgreSQL
- Facilitated record project deliveries
- Contributed to scaling the IT team from 5 to ~ 20 engineers and developers located in Utrecht (The Netherlands), Iași (Romania) and Kiev (Ukraine) by coaching, mentoring and participating in knowledge transfer sessions
- Improved the availability and scalability of the IT platform by modularizing and migrating to cloud hosting on Amazon Elastic Compute (EC2) and Amazon Web Services (RDS, S3)

Software Developer

[Microsign Business Software](#) 📅 01/2008 - 07/2008 📍 Zwolle

ERP software and consultancy provider

- C# Developer in charge of implementing the user interface of AMF 2008 CRM application.

Software Developer

[ISDC \(now Endava\)](#) 📅 11/2004 - 12/2007 📍 Cluj-Napoca

I've joined ISDC (now Endava) when it was a private equity company with offices in Cluj-Napoca (Romania 🇷🇴) and Hilversum (The Netherlands 🇳🇱)

- Develop 2 full-text search applications in Java on top of Apache Lucene
- Help digital transform and cut operational costs at a Dutch information services provider via migrating their software from IBM stack & Cobol to fully open source
- Solve problems with code, mainly: Java, Java EE, JavaScript and SQL
- Organise and participate in knowledge exchange sessions and help prepare training for ISDC code camps
- Initiate my Dutch language & culture journey during project related on-site visits at client

Software Developer

[Ro Planet \(now Planet Group International\)](#) 📅 09/2003 - 11/2004

📍 Cluj-Napoca

Document Management tailor-made solutions

- Java/J2EE Developer working extensively on front-end/presentation tasks.

TECH STACK

Continuous Integration & Delivery

[GitLab](#) [Travis CI](#) [Jenkins CI](#) [GitHub](#)

Databases, Message Brokers & Data Pipelines

[PostgreSQL](#) [MySQL](#) [MariaDB](#)

[Redis](#) [Apache Kafka](#) [Spring Data Flow](#)

[Apache Spark](#) [ELK Stack](#)

Java Enterprise Development

[Apache Tomcat](#) [Jetty](#) [JAX-WS](#)

[JAX-RS](#) [Apache CXF](#) [Apache Karaf](#)

[Hibernate](#) [EhCache](#) [Spring Boot](#)

[Spring Core](#) [Spring Data](#) [REST](#)

Test Driven Development

[JUnit](#) [Mockito](#) [ScalaTest](#) [AssertJ](#)

Version Control & Build Tools

[Git](#) [Gradle](#) [Maven](#) [SBT](#)

Web Development

[HTML5](#) [AngularJS 1.x](#) [jQuery](#)

[Bootstrap 3](#) [JSON](#) [XML](#) [SwaggerUI](#)

Operating Systems

[CentOS](#) [Debian](#) [Ubuntu](#) [macOS](#)

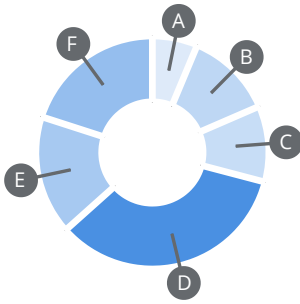
Prototyping

[Jupyter Notebook](#) [Markdown](#)

IDE

[IntelliJ IDEA](#)

MY IDEAL DAY



- A Good coffee
- B 10.000+ steps
- C Problem solving
- D Complex problem solving
- E Learning something new
- F Meaningful human interaction

BLOG POSTS I WROTE



Centralized metrics with Stackdriver Prometheus Exporter



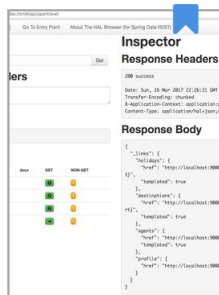
Testing a Spring Cloud Stream Microservice



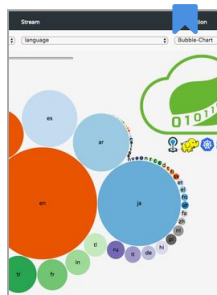
Dresses, Stream Processing and Apache Kafka



Getting Started with Docker



Expose a discoverable REST API of your domain model using HAL JSON as media type



Analytics Dashboards with Spring Cloud Data Flow

EDUCATION

Engineer's Degree, Computer Science,
[Technical University of Cluj-Napoca](#)
1998 - 2003

CERTIFICATES

[Certified Java Programmer](#)
Sun Microsystems

[Certified Business Component Developer](#)
Sun Microsystems

TRAINING / COURSES

[One day Istio Masterclass](#)
Container Solutions & GOTO Academy

[Kubernetes for Application Developer](#)
Container Solutions

[Docker for Enterprise Developers](#)
Docker, Inc.

[Architecting with Google Cloud Platform](#)
Coursera

[Data Science with Apache Spark™](#)
GoDataDriven

LANGUAGES

English	Advanced ●●●●●
Dutch	Proficient ●●●●●
Romanian	Native ●●●●●
Hungarian	Native ●●●●●