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

Software Engineer

XebiaLabs - Enterprise DevOps   📅 10/2017 - Ongoing   ⚲ 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 (Dutch: Elektronisch Patiëntendossier) system is built to compliment the healthcare process.

- Go PROduction with company's first public facing REST API used to synch healthcare systems data and support 2k new users of their biggest client
- 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 highest degree of protection while consuming sensitive data
- Maintained a Single-Sign-On module by providing tweaks & fixes

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

TECH STACK

Statically & Dynamically Typed Programming Languages

`Java 8` `Scala` `Python` `JavaScript`

Security, Authentication & Authorisation

`Java Cryptography Architecture` `HMAC` `PKCS12` `OAuth 2.0` `Spring Security`

Databases, Message Brokers & Data Pipelines

`PostgreSQL` `MySQL` `MariaDB` `Redis` `Apache Kafka` `Spring Data Flow` `Apache Spark`

Provisioning & Configuration Automation

`Docker` `Minikube` `SaltStack` `YAML` `Bash Scripting`

Performance Monitoring & Distributed Systems Observability

`JMX` `VisualVM` `Spring Boot Actuator` `InfluxDB` `Grafana` `CollectD`

Test Driven Development

`JUnit` `Mockito` `ScalaTest`

Web Development

`HTML5` `AngularJS 1.x` `jQuery` `Bootstrap 3` `JSON` `XML`

Senior Software Developer

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 modularising and migrating to cloud hosting on Amazon Elastic Compute (EC2) and Amazon Web Services (RDS, S3)
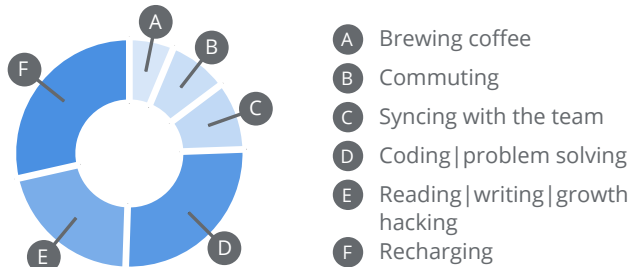
Software Developer

ISDC (now Endava)   📅 01/2004 - 07/2008   📍 Romania/The Netherlands

Solve problems with code, mainly: Java, Java EE, C# and SQL, at various companies, from which ISDC (now Endava) had the biggest impact on my professional and personal growth.

- Develop 2 full-text search applications on top of Apache Lucene and Java
- Help digital transform and cut operational costs of a Dutch information services provider by ~ 30% via migrating their software from IBM stack & Cobol to fully open source
- Organise and participate in knowledge exchange sessions and help prepare training for ISDC summer code camp

A DAY OF MY LIFE

- A Brewing coffee
- B Commuting
- C Syncing with the team
- D Coding | problem solving
- E Reading | writing | growth hacking
- F Recharging

BLOG POSTS I WROTE

Testing a Spring Cloud Stream Microservice

Dresses, Stream Processing and Apache Kafka

Getting Started with Docker

Java Enterprise Development

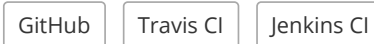`Apache Tomcat` `Jetty` `JAX-WS`
`JAX-RS` `Apache CXF` `Apache Karaf`
`Hibernate` `EhCache` `Spring Boot`
`Spring Core` `Spring Data` `REST`
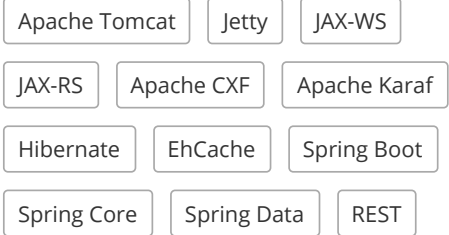
Version Control & Build Tools

`Git` `Gradle` `Maven` `SBT`

Cloud Platforms

`AWS` `Pivotal Cloud Foundry`

Continuous Integration & Delivery

`GitHub` `Travis CI` `Jenkins CI`

Operating Systems

`CentOS` `Debian` `Ubuntu` `macOS`

Prototyping

`Jupyter Notebook` `Markdown`

IDE

`IntelliJ IDEA`

Engineer's Degree, Computer Science,

Technical University of Cluj-Napoca
📅 1998 - 2003

Certified Java Programmer
Sun Microsystems

Certified Business Component Developer
Sun Microsystems

Beyond banking / Technical jury member

ABN AMRO 🗓 2017

I've got invited to replace a runaway technical jury member and enjoyed learning more on disruptive concepts and technologies such as PSD2 & Blockchain while meeting inspiring people and evaluating technical solutions of 10 teams during the two days of the hackathon.

Teach children to code

Devoxx4Kids 🗓 2015 - Ongoing

Devoxx4Kids organises events worldwide where children can develop computer games, program robots and also have an introduction to electronics. In the past I've helped with the technical review of workshop material, prepare USBs, install laptops and mentoring kids on creative Minecraft modding with Java and Forge. I've also built my own robot car on top of a Raspberry Pi 2 model B board, Dexter Industries GoPiGo2 kit and Raspbian for robots operating system. Currently tinkering on a workshop on how to interact with Google Cloud Vision API using the Raspberry Pi camera and a Google Cloud account.

Data Science with Apache Spark™

3 days theory and labs approach to hands-on learn how to leverage Spark SQL, machine learning & streaming APIs in combination with Python and Jupyter notebook. Training focused on both data engineering and data science concepts.

Language	Level	
English	Advanced	●●●●●
Dutch	Advanced	●●●●○
Romanian	Native	●●●●●
Hungarian	Native	●●●●●