



I am 28, currently an Enterprise Java developer with **4 years of experience**, looking to become a full-time Scala developer.

Above all, I am interested in working on projects that intrigue me. These are some key intriguing factors: **challenging algorithms, new technologies, a "make the world a better place" work domain.**

You can find out more about me by following the links below.



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## SKILLS

Jenkins	██████████
JavaEE	████████████████████
JBoss 7	██████████
Maven	██████████
Mercurial	██████████
PostgreSQL	██████████
SonarQube	██████████
TDD	██████████
Scala	██████████

## LANGUAGES

I am bilingual (Croatian and Hungarian). My English is also exceptional, largely due to the fact that I finished [an international high school](#), where all the courses were held in English.

I've studied Portuguese ever since getting a huge head start in learning it during my stay in Brazil.

Croatian	████████████████████
English	████████████████████
Hungarian	████████████████████
Portuguese	██████████

## REFERENCES

References are available on request. Meanwhile, you can see how I think on [StackOverflow](#).

## NOTABLE PROJECTS

**Blink** at **Amphinicy Technologies** as **lead developer**, Mar 2014 - Present

An R&D project aiming to replace existing expensive hardware solutions for high speed processing of satellite telemetry data with an efficient software solution. I implemented a highly-parallel implementation of Reed-Solomon decoding on a GPU. For GPU programming, I used the [Rootbeer](#) Java GPU compiler.

**Responsibilities:** Researching, measuring, optimising, and documenting relevant results on performance-critical segments of the data processing pipeline.

**Technologies:** Rootbeer, CUDA, GPGPU, JUnit/EasyMock, Java Executor Framework, Guava, Maven, Mercurial, Jenkins, SonarQube, Redmine

**ADS-B PROBA-V** at **Amphinicy Technologies** as **lead developer**, Oct 2012 - Dec 2013

A prototype project for air traffic tracking via satellite receivers. Amphinicy was in charge of the entire ground solution. This included real-time decoding and persisting of air traffic data, encoded in various formats by terrestrial and satellite receivers, and generating reports based on performance comparison of terrestrial vs. in-orbit receivers.

**Responsibilities:** Implementing decoders with thorough unit testing. Implementing efficient report generation logic by leveraging advanced DB queries. Implementing report presentation logic. Tight cooperation with the customer.

**Technologies:** JUnit/EasyMock; PostgreSQL/PostGIS; JasperReports; JBoss7: remoting, HornetQ; REST; JSON; Java Executor Framework, Guava, Hibernate, Maven, Mercurial, Jenkins, SonarQube, Redmine

**MUSCADE** at **Amphinicy Technologies** as **lead developer**, Jan 2011 - Dec 2012

A prototype multimedia platform delivering interactive 3DTV content broadcast via satellite. The solution included server side, set top box and mobile device software and 3DTV games.

**Responsibilities:** Implementing set-top box OSGi components for content fetching, caching and application lifecycle control. Implementing a rich mobile controller application. Implementing a 3D EPG for display on 3D TVs. Implementing backing web services. Agile project management. Technology and feature consulting.

**Technologies:** Java, OSGi, OpenGL, jMonkeyEngine, Android, JSF 2.0, XSLT, C#, C++, UPnP, NASA World Wind, Blender, Maven, SVN, Jenkins, GForge

## WORK EXPERIENCE

### Amphinicy Technologies

Software Engineer  
Jan 2011 - Present  
Zagreb, Croatia

### PUC Campinas

University Assistant Intern  
Oct 2010 - Dec 2010  
Campinas, SP, Brazil

### Sandpiper Beach Club

Front Desk Attendant  
Jul 2010 - Sep 2010  
Cape May, NJ, USA

## EDUCATION

### University of Zagreb

Computer Engineering  
M. Sc. 2008 - 2010  
B. Sc. 2005 - 2008

M. Sc. thesis in GPGPU-enabled HD video encoding: "Implementation and Optimisation of Intra-Frame Prediction in the H.264 Standard"

B. Sc. thesis in computer graphics: "Simulation of Fracturing a Brittle Object".

**Notable courses:** Multimedia Architectures, Distributed Software Development, Object-oriented Programming, Machine Learning, Discrete Mathematics

# ABOUT

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## Professional Interests

I wish to work in an environment that can afford to produce high quality software; and one that holds this practice in high esteem. I admire - and practise - test driven development and, more importantly, design for testability.

At home I spend most of my spare time learning Scala. I've completed FP principles in Scala, and am about to complete Principles of Reactive Programming on Coursera.

## Personal Interests

There are very few things that I do not find interesting. Perhaps my most keen interest and life goal lies in sustainability and the environment. In the long term, I wish to take significant part in designing solutions that reduce the degrading impact of civilisation on the environment.

Besides this, I am passionate about linguistics, etymology and music.

## Added Value

I avoid starting work on a task before having a sufficient comprehension of the big picture. This gives me a pragmatic approach to problem solving, allowing more accurate estimation and balance between the quality and feasibility of a solution.

My wit and positive attitude inspire a good mood and a pleasant ambiance with co-workers. This induces an additional sense of cohesion in teams I take part in.