



Damir Čohadarević

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WORK EXPERIENCE

2013-present (2y3m) (backend engineer at [Seven Bridges Genomics](#))

Amazon instance Allocator/Pooler service [Java + MySQL + AWS]

Designed and implemented a fault tolerant Amazon EC2 instance allocation service with pooling, freezing, death management and multi-region support.

Distributed task Supervizor [Java + MySQL + BerkeleyDB +ActiveMQ]

Redesigned original supervisor to be fault tolerant, more efficient and more scalable. Full redesign of database backends, full redesign of distributed communication.

Second generation Supervizor [Java + MySQL + RabbitMQ]

As part of the team for creating second-generation Supervisor:

Designed and implemented an extremely fault tolerant task Orchestrator.

Designed and implemented MQ agnostic inter-service communication layer.

Various [Java]

Improved or implemented various core libraries for configuration, dependency management, json serialization, batch processing and service communication.

Various [Python]

As part of SDK team recoded part of the backend from Java to Python.

Implemented and integrated some test tools into SBG system.

Done an extensive S3 network research.

Recoded part of backend to work on *Google Cloud Platform* (a proof of concept)

2013 (2m) (open-source)

Developed [Wc3Borderizer Online](#) - Google Web App [Java Servlets+JSP]

2012-2012 (8m) (software developer at [Asseco-see](#))

Antegra banking application [Oracle forms + PL/SQL]

Implemented modules in new Collateral Management System: collateral owners, insurance policies, client ratings, batch notifications.

bApO Form Validator [JavaEE + Oracle forms]

Developed a coding standards verification tool for oracle forms applications.

This web app is an internal company tool, project was started on my proposal.

Report Server for Docx printing [Java]

Developed Java Server, Swing Client and QR Code generator for report documents.

Celik Personal Card Reader [Java]

Integrated reading of personal card info into Raiffeisen banking app.

Experience-bApO integration [C# + PL/SQL]

Integrated various frontends-backends with Object <-> XML mappings.

Implemented Batch synchronizations of data between MS-SQL and Oracle.

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2008-2011 (3y9m) (open-source)

Created 4 SourceForge Projects

<http://parapascal.sf.net> Compiler & IDE [Java Swing]

<http://codereplicator.sf.net> Code generator [Java Swing]

<http://c-jasshelper.sf.net> Compiler [Delphi]

<http://wc3borderizer.sf.net> Icon generator [Java Swing]

Created 7 full game mods for wc3 under nickname: cohadar

Most mods have over 10.000 lines of code, custom 3D physics and AI mechanics.

2007-2007 (4m) (freelance)

Developed Java Code Generator and Model Checker for StarUML in cooperation with Aleksandar Vitorović. Both products were purchased by **SOL** with full rights to be a part of new java based SOLoist (model-driven RAD Framework).

2006-2007 (1y6m) (part-time employee of [Serbian Object Laboratories](#))

Ported SOLoist to Linux, done code refactoring & build automation [C++]

Developed LexFusion outlook attachment archiver as a Lead programmer [VB]

Implemented BMMSoft .docx and .xlsx text extraction and archiving and improved several web app modules (accounts, registration, attachments, ...) [Java+JSP]

Had developer role on various other projects.

EDUCATION

2002-2011 (Bachelor of Science – Grade: 7.7/10)

University of Belgrade, School of Electrical Engineering

Department: Computer Science and Informatics

Bachelor Thesis: ParaPascal compiler, multicore simulator and IDE

1998-2002 (Highschool Degree – Grade: 4.5/5)

Mathematical Gymnasium Belgrade

Thesis: Assembler implementation of Big Numbers Library

SKILLS

SOA and Cloud Architecture, Multithreading and Distributed computing

Java/JavaEE – Eclipse, JPA/Hibernate, Google, Apache and Netflix software stacks

Databases – MySQL, BerkeleyDB, Oracle, PL/SQL

Middleware – ActiveMQ and RabbitMQ

TDD(Test driven development), junit, TestNG and Mockito

Working experience in Python, JavaScript, C/C++, C#, vb.NET

Hobbyist functional programmer: Erlang & Scheme

LANGUAGES

Serbo-Croatian (Native)

English (Excellent)

German (Beginner)

INTERESTS

Baduk player: 7 Kyu.

Martial Arts: practiced Taekwondo for 6 years.

Reading Books: classic literature and modern sociology.

Game modding, game theory and game economies.