

ION T. FILIP

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OBJECTIVE

A position in software development that requires creative thinking, excellent skills and a solid experience in order to build reliable, performant and profitable software solutions.

OVERALL SUMMARY

- Solid experience in professional software development for US and EU-based companies.
- Strong skills in C/C++/Java programming on both UNIX and Windows platforms, distributed systems, multithreading and networking programming.
- Excellent understanding of object-oriented software architecture and design.
- Creative and pragmatic, self-motivated, out of the box thinker, strong teamwork abilities.
- Fast learner and fast accommodation to new environments, ability to work against tight deadlines.

SUMMARY OF SKILLS

- **Software Architecture & Design:**
In-depth experience designing, implementing, documenting, testing and maintaining complex software applications. Solid understanding of object oriented Design Patterns.
- **UNIX Programming:**
Three years of experience in UNIX C/C++ programming, good knowledge of Inter-process Communication, I/O, Sockets and Multi-threading (PThreads). Developed applications for multi-cluster environments. Bash scripting.
- **Java:**
Strong knowledge of the core language. Worked at several projects using multithreading, networking, JDBC, Servlet and Applet APIs.
- **Distributed Systems:**
Experienced in software development for multi-cluster (UNIX) data processing software. Implemented a Distributed System Simulator (C, C++ / Linux) for message-passing driven systems. Experienced in multithreading on Windows, Unix (POSIX Threads) and Java. Worked with MPI API.
- **Windows Programming:**
Experienced in programming with C++, Win32 API, MFC and multithreading using Microsoft development tools. I was involved in the development of three major projects for Windows platforms.
- **Databases:**
Experienced in working with SQL based databases (ORACLE, SQL Server, SQLite).
- **Network programming:**
Worked with BSD Socket API, WinInet & MS Internet SDK. Implemented a multi-threaded HTTP(S) web-robot in Visual C++, implemented a SIP client application (Java).
- **C# / .Net:**
Good knowledge of the C# programming language and .Net Class Libraries.
- **GUI Design, Web Client & XML:**
Involved in GUI designing and re-designing at application and module level. Simplicity, user perspective driven. Worked with HTML, CSS and JavaScript. Experienced in working with DOM & SAX XML parsers and XSD.
- **Maintenance, Testing & Optimizations:**
Very solid experience in testing and debugging complex software applications. Excellent results in optimizing critical parts of the projects I was involved in.

EMPLOYMENT HISTORY

3DGeo Inc., Houston, USA

Oct 2007 - Present

Designing and implementing scalable distributed processing software applications using C, C++, Java & SQL on multi-cluster UNIX environments, and Windows workstations.

Projects:

- *'RockIt'* - Development platform for complex geophysical applications. It provides parallelization, I/O services, parametrization, networking, multi-threading and performance monitoring capabilities.
- *'KASum'* - Distributed application for collecting non-overlapping data using the SEP format, integrated with other systems.

Implemented in C using MPI, multi-threading.

- 'GTT' - GUI application implemented in C++/QT that offers the ability to define and work with grids, sub-grids, survey coordinates and other 2D objects.
- 'DeploymentSystem' - In-house installation system for a large portfolio of UNIX applications. Handles packing, installing, run-time configuration, versioning and dependencies. Implemented using bash.

Pointersoft, Bucharest, Romania

Jan 2007 - Aug 2007

Projects:

- 'SIP Client' - Java client library and JMeter plug-in for SIP (Session Initiation Protocol).
Design, specifications, implementation, testing and documentation. Implemented using Java 1.5, networking, XML and I/O.

Amdocs Development Ltd., Limassol, Cyprus

Sept 2005 - Oct 2006

Working for the biggest software provider for the telecom industry. Implementation, maintenance, testing and defects fixes.

Projects:

- 'Amdocs Ordering Suite' - Clustered software solution for customer order management in large telecom companies.
Involved in design, implementation, maintenance, deployment and testing.
Implemented using Java, EJB, JMS, JSP, client-server communication, XML, XSD, Oracle database on various UNIX systems (Sun, HP, Itanium).

Edimpres, Iasi, Romania

Dec 2003 - July 2005

Working in a team of four programmers to create innovative and profitable software products. Projects:

- 'Companii' - Complex solution for company research & local business information tool.
It's design is based on a three-tier architecture, having a Windows based smart client implemented using C++, MFC, Win32 API, SQL databases, multithreading, DirectX SDK, WinInet, COM, MS Internet SDK, Java, HTML/CSS/JavaScript.
Highly involved in all stages of product's lifetime: overall architecture, module design and implementation and testing of the Windows client application.

Romus Trading & Development, Iasi, Romania

July 2000 - Dec 2001

Developing for Cofiniti Co. Austin, TX USA, in a team of five programmers for the continued maintenance, adding new modules and enhancements, testing and defects fixes. Projects:

- 'LifeScript 32' - Interactive investment planning and modeling software.
Involved in implementation, code maintenance and testing. Implemented using C++, MFC, COM/DCOM, client-server communication, XML and a broad range of technologies for database activities.
- 'LifeScript CX-AW-IW' - Web-based investment and life goals planning and modeling software.
Implemented on a three-tier architecture with ASP, HTML/CSS/JS, XML, C++, COM, SQL Server.

EDUCATION

- "**Gh. Asachi**" **Technical University**, Iasi, Romania 1997 - 2002
Bachelor of Science in Computer Science. Graduated after a five year program.
Equivalent in USA with an *Integrated Bachelor and Master Degree in Computer Science and Engineering.*
My degree project '*Asynchronous Message Passing Distributed Systems Simulator Engine*', is a console Linux app impl using C, PThreads, UNIX system functions and XML DOM; evaluated with 9.83 points out of maximum possible 10.
- "Gr. Moisil" Computer Highschool, Iasi, Romania 1993 - 1997

CERTIFICATION

- *Brainbench Master C++* > 94% (higher than 94% of all previous test takers)
- *Brainbench Master Java 2 Fundamentals* > 96%

ADDITIONAL INFORMATION

- 29 years old, married.
- Languages: English - fluent, Romanian - native.
- Hobbies: Karting, basketball, fishing, Formula 1, overclocking.