

# Doron Rippel

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## Summary

Software engineer (Bachelor's Computer Science) with extensive experience in design and development of complex database & software projects throughout their complete life cycle, in the environments of Linux, Unix and Windows.

Experience in software development for commercial, publishing, gaming, mining and intelligence industries.

## Main Skills

Database experience: MySQL, PostgreSQL, Informix, Oracle, SQL Server, Derby & HSQL relational database systems, Elasticsearch for full text indexing & search, and Cassandra for big data. Experienced in SQL, stored procedures, database performance and space optimizations, database design and maintenance.

Object Oriented and functional design and development experience in Java, Scala, C#.

Additional technology frameworks: Spark, Spring Boot, Maven, Gradle, sbt, GIT.

NLP experience: entity extraction, full Text Search, language detection.

AI experience in design and implementation of Collaborative Filtering, Recommendation Systems, Machine Learning and Data Mining algorithms.

## Main Strengths

- Fast learning and deployment of new technologies and environments
- Design and optimization of complex Data structures and databases
- Original solutions to software design and implementation problems
- Integration of systems from different vendors/technologies

## Relevant Education

1989 - Bachelor's Computer Science (Technion – Israel Institute of Technology)

## Professional Experience Details

**2017-Present:** Senior Search Engineer at Pipl Search Inc. in Israel. Using Java, Scala, Spark, Spring-Boot, MySQL, Cassandra, GIT, Maven and sbt to develop and maintain the world's largest search engine of people, running queries on over 25 billion records.

**2013-2017:** 3i-MIND/AGT Inc. in Israel. Worked as a software engineer, designing and developing a Web Intelligence product for law enforcement agencies and national intelligence and security agencies. Functionality developed includes: Entity extraction and full text search in multiple languages, language detection, database encryption, distributed database, GIS map proxy server.

Technologies used: Java, JDBC, JPA, Basis, Elasticsearch, PostgreSQL, Scala, Spark, in the environments of Linux & Windows.

**2011-2013:** MineSched Software International in Vancouver, BC, Canada. Worked as a software engineer in developing logic + GUI for a desktop stand-alone application for mining processes and resources scheduling.

Technologies used: C#.Net 4.0, LINQ, in the environment of Windows 7, Visual Studio 2010, Kiln source management, Test Track bug tracking.

**2009-2010:** THQ/Relic Entertainment in Vancouver, BC, Canada. Worked as a Sr.

Programmer (contract) in design and implementation of server-side software, database

structure and database access for the online servers of the game Company of Heroes Online.

Technologies used: Java (servlets), SQL, Memcached in the environment of Windows 7, Linux (CentOS), MySQL, Jetty servlet container, Eclipse, Perforce source management, FogBugz bug tracking.

**2008-2009:** Orbital Technologies in Vancouver, BC, Canada. Worked as a Sr. Computer Scientist. Did requirements definition, design, technical leadership and implementation of two projects for Microsoft: Smart-phone application for Microsoft HealthVault, and an enterprise data hub for multiple instances of MS Dynamics CRM.

Technologies used: C#, Bluetooth communications between smartphone and PC, SQL, SSB and CDC (SQL Server 2008 technologies) in the environment of Windows Mobile, Windows Vista, SQL Server 2008, MS Visual Studio.

**2003-2008:** Kodak Canada in Burnaby, BC. Worked as a Sr. Software Developer and Principal Engineer in software design and development in a project, that provided data storage and communications between external MIS systems and Kodak products.

Technologies used: Java (servlets, Swing, Concurrency, JMS, JNI, NIO), SQL, C#, XML-RPC, Web Services, some Hibernate. All in the environment of Windows, IntelliJIdea, JBoss, Tomcat, Derby database, HSQL, ClearCase source control.

**2001-2003:** Creo Canada in Burnaby, BC. Worked as a Sr. Software Developer and Principal Engineer in database design and software development for a digital asset management product.

Technologies used: Java, RMI, JDBC under Windows and Oracle.

**1991-2001:** Scitex Corporation in Herzliya, Israel. Worked as database Team Lead in design, technical leadership and development of database-software systems for digital asset management. Also, international customer support and mentoring service engineers in courses in Europe, USA and Israel.

Technologies used: C, C++, SQL, Java in the environment of AIX on IBM PowerPC, Informix database, Visual Age, SCCS source control.

**1989-1991:** Performance LTD in Israel. Designed and developed database and software for the tourism industry.

Technologies used: Informix 4GL, Informix SQL on Unisys, NCR and PS/2 computers, running At&T Unix and XENIX.

## **Machine Learning Competitions**

- Placed 273<sup>rd</sup> in the Netflix Prize Competition, in which 51,000 Data Scientists from 185 countries competed in development of Collaborative Filtering algorithms (see [http://en.wikipedia.org/wiki/Netflix\\_prize](http://en.wikipedia.org/wiki/Netflix_prize) AND [Netflix Prize Leaderboard](#)).
- Placed 190<sup>th</sup> of 1,353 competitors in the Kaggle “Heritage Health Prize Predictive Analytics” competition (see <http://www.heritagehealthprize.com/c/hhp/Leaderboard>).
- Placed at the top 5% in the Kaggle “House Prices: Advanced Regression Techniques” competition (see <https://www.kaggle.com/c/house-prices-advanced-regression-techniques/leaderboard>).

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