

# **Israel Gurevich**

## Complex Algorithm Design and Software Development

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### **Expertise**

- I'm an expert in software development and offer innovative algorithmic solutions to complex multidisciplinary challenges such as mathematics, physics, computer science, data science, engineering, finance and production.
- Proven ability to understand the problem, design the algorithm and develop it into a real code.
- I'm experienced in packaging technological concepts into innovative software products.
- I'm proficient in the establishment, training, and mentorship of effective teams.

### **Skills**

- Computer Science, Mathematics, Physics, Algorithms, Statistics, Data Science
- C/C++, Java, JavaScript, Python, Assembler, Visual Basic, Pascal, Fortran
- OOP, SQL, HTML, XML, CSS, API, Bash, MatLab
- BI, AI, NLP, GPT, LLM, Machine Learning, Deep Learning, Data Mining
- Agile, Scrum, Enterprise Development
- Leadership, Communication, Coaching, Mentoring, Teamwork
- Problem-solving, Critical Thinking, Working under Pressure, Can-do Attitude, Proactive

## **Work Experience**

### **Principal Algorithm Engineer, Principal Software Engineer**

#### **Self-employed**

**2015 - Present**

Researched and designed algorithms for trading robots and advisors.

Developed trading robots and advisors.

Checked the integrity of the data and prepared the data for learning and analysis.

Analyzed the big data.

Created the deep learning models.

Traded in the forex market.

### **Senior Software Engineer, Team Lead**

#### **CA (Computer Associates), Tel Aviv/Herzliya, Israel**

**2000 - 2015**

#### **Knowledge Tools**

Researched, designed, and developed algorithms for natural language processing.

Researched, designed, and developed algorithms for clustering search results.

Developed the Server and Client parts of Knowledge Tools.

#### **Service Desk Knowledge Tools**

Developed the Server side using C++.

Integrated Knowledge Tools into the Service Desk.

Maintained development servers.

#### **Oblicore**

Created and supported a Java module to copy contracts containing complex data structures between different versions of contract data storage.

#### **Automation Tests Team Leader**

Led a team of 4 engineers to design and develop automation tests for the daily testing of new builds.

#### **Playbook**

Implemented and supported web services.

*Handled urgent and important support cases.*

### **Lead Engineer**

**PKNM (Perm Oil Machinery Company), Perm, Russia**

*Developed technical assignments for engineers.  
Analyzed engineers' requirements.  
Created technical tasks for a group of workers.  
Implemented production control and effected adjustments as needed.*

**1997 - 2000**

### **Education**

**MIPT (Moscow Institute of Physics and Technology)**

*Department of Management and Applied Mathematics  
**Master of Science**, Applied Mathematics  
**Bachelor of Sciences**, Mathematics, Physics and Computer Science*

**1991 - 1997**

**Languages** English, Hebrew, Russian

### **Honors**

*Winner and Prize-Winner of numerous city, regional, and all-Russian Mathematics, Physics and Computer Science Olympiads.  
Winner of the all-USSR conference in Computer Science.  
Member of the Russian team in Computer Science.*

### **Hobbies**

- *Learning Tora*
- *Practical Psychology and NLP*
- *Coaching*
- *Solving Olympiad tasks*
- *Travelling, hiking, table tennis, bicycle, horse riding, trips, cart driving*